

April 19, 2005

Ms. Jo Bentz
Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

**RE: Semiannual Groundwater Monitoring Results Report, First Half 2005
Former Unocal Bulk Plant No. 1975**
1051 Spencer Avenue, Santa Rosa, California
ENSR Project Number 06940-362

Dear Ms. Bentz:

ENSR Corporation (ENSR) has been authorized by Union Oil Company of California (Unocal) to perform semiannual groundwater monitoring at the site located at 1051 Spencer Avenue, Santa Rosa, California (**Figure 1**). The locations of former and current site features are illustrated on **Figure 2**. Semiannual groundwater monitoring is intended to evaluate the distribution of petroleum hydrocarbon constituents in groundwater beneath the site. This report summarizes results of groundwater sampling conducted during March, 2005. The work was performed in accordance with the field methods and procedures presented in **Attachment A**.

Site Closure Activity

A *Revised Addendum to Human Health Risk Assessment* has been prepared and submitted on April 14, 2005 in response to a December 2, 2004 request from the Regional Water Quality Control Board. A remedial approach is being developed which will likely be an in-situ technology which will be presented in a Corrective Action Plan and will be submitted in due course.

Groundwater Level Measurements

Depth to groundwater measurements were recorded in monitoring wells MW-1 through MW-12, and DW-1 on March 23, 2005 (**Table 1**). Groundwater measurements recorded on March 23, 2005 were used to construct the groundwater elevation contour map (**Figure 3**). On March 23, 2005, the groundwater flow direction was south to southwest with an average hydraulic gradient of approximately 0.004 to 0.005 feet per foot (ft/ft). Copies of the groundwater sampling field sheets are included in **Attachment B**. A summary of first half 2005 groundwater elevations is presented in **Table 1**.

Groundwater Sampling and Analytical Results

Groundwater samples were collected from monitoring wells MW-2, MW-3, and MW-11 on March 23, 2005. The groundwater samples were submitted to California Laboratory Services, in Rancho Cordova, California, a State-of-California-certified analytical laboratory, for analyses of

Ms. Jo Bentz
April 19, 2005
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total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015 Modified, and for volatile organic compounds (VOCs) by EPA Method 8260B. Samples from MW-2, MW-3, and MW-11 were also analyzed for CAM-17 metals by EPA Methods 200.7, 200.8 and 245.1. Samples from MW-2 and MW-3 were also analyzed for semi-volatile organic compounds (SVOCs) by EPA Method 8270C. Additionally, groundwater samples from MW-2, MW-3, and MW-11 were submitted to Alpha Analytical, Inc. in Sparks, Nevada for analysis of ethanol by EPA Method SW8260B-DI. Copies of the certified laboratory analytical reports with chain-of-custody documentation are included in **Attachment C**. Groundwater monitoring data and analytical results are summarized in **Tables 1 through 5**. Historical groundwater monitoring data and analytical results are included in **Attachment D**. **Figure 4** depicts dissolved concentrations of TPHg, benzene, and methyl tertiary butyl ether (MTBE) detected in groundwater during the March 2005 sampling event.

Conclusions/Recommendations

Groundwater elevation rose approximately eleven feet since the September 2004 monitoring and sampling event. Typical seasonal water level fluctuations over the monitoring history are on the order of approximately 8.25 feet. The groundwater contours shown in **Figure 3** do not indicate localized changes in gradient and flow direction that might be caused by operation of a nearby municipal or domestic well. The observed increase in groundwater elevations appears to be regional and seasonal in nature.

- TPHd was detected in MW-2 and MW-11.
- TPHg was detected in MW-2 and MW-3.
- Lead was not detected above 5.0 µg/L in the wells sampled.
- 2-methyl naphthalene and naphthalene were detected at levels of 32 µg/L and 17 µg/L respectively in MW-2.
- VOCs were not detected in MW-11.
- VOC concentrations in MW-2 and MW-3 were significantly lower than in the previous round of sampling in September 2004 but similar to levels seen in March 2004. VOC concentrations seem to decrease as the groundwater elevation increases.
- CAM 17 dissolved metal analytical results were similar to samples taken in March 2004, with arsenic and barium being reported above the detection limits.
- Ethanol was detected in MW-2, MW-3, and MW-11 at concentrations of 19 µg/L, 18 µg/L, and 12 µg/L respectively.



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Future Work

The next semiannual groundwater monitoring and sampling event is scheduled for September 2005.

Remarks/Signatures

The interpretations in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact David Peacock at (510) 748-6700.

Sincerely,
ENSR Corporation

Mike Fischer
Staff Engineer

D.N. Peacock, Ph.D.
Senior Project Manager

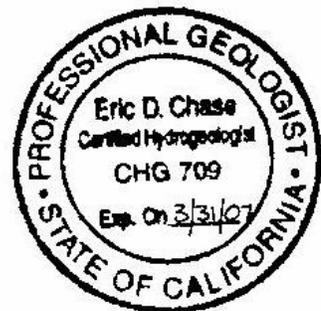
Eric Chase, C.H.G. # 709
Chief Geologist,
Northern California Operations

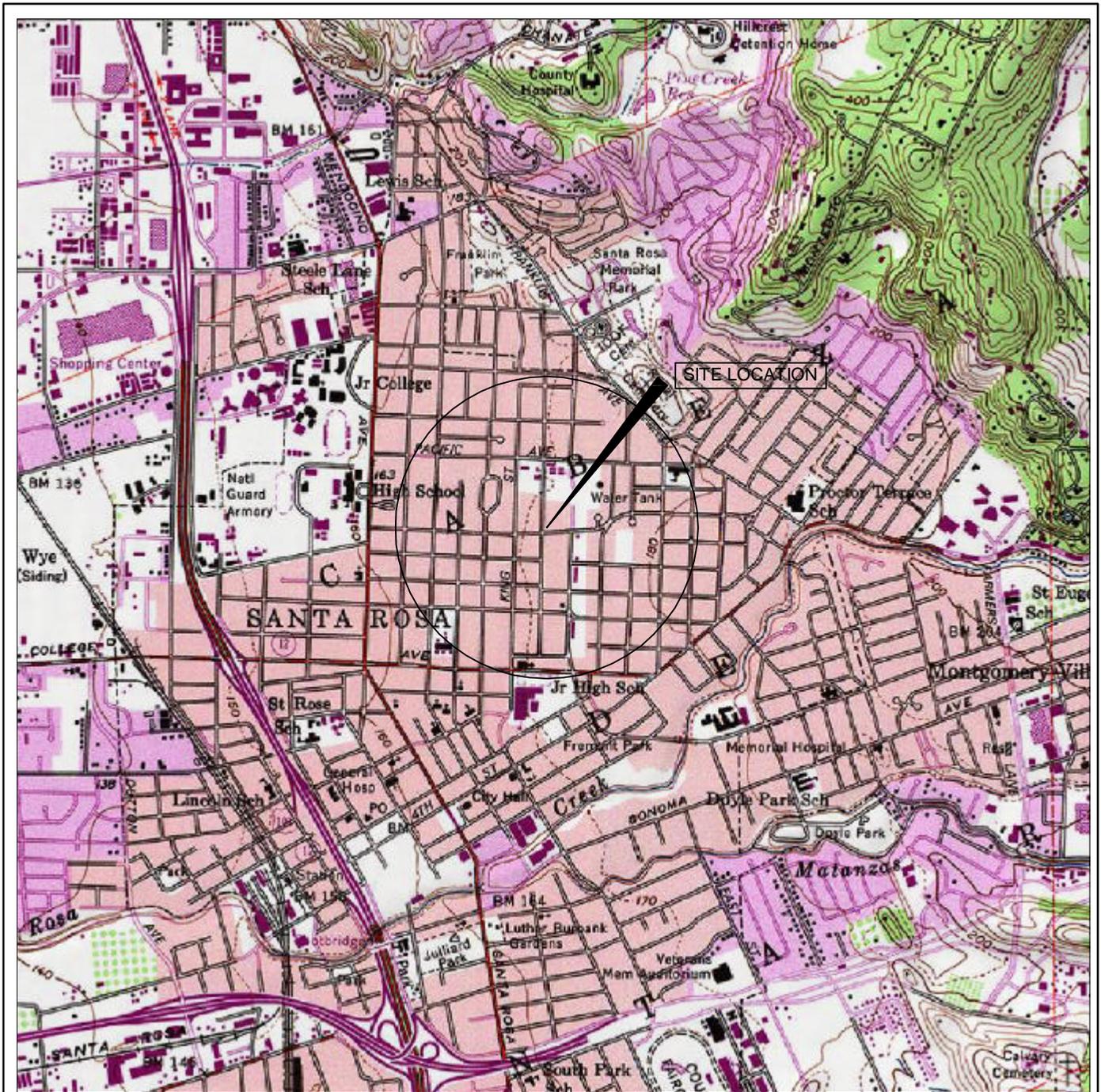
MF/DP/dk

Ref. 06940-362-100

Attachments

cc: Mr. John Frary--Union Oil Company of California



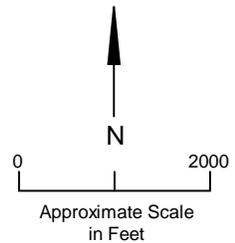


Map created with TOPO - 2003 National Geographic



MAP LOCATION

SOURCE: BASE MAP FROM USGS SANTA ROSA, CA
7.5 MINUTE TOPOGRAPHIC 1994



10411 Old Placerville Road Ste 210
Sacramento, California 95827
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SITE LOCATION MAP

FIGURE

Former UNOCAL Station 1975
1051 Spencer Avenue
Santa Rosa, California

Semi-Annual Monitoring Report
First Half 2005

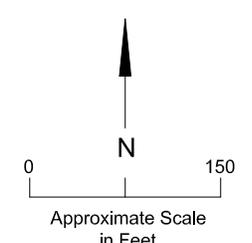
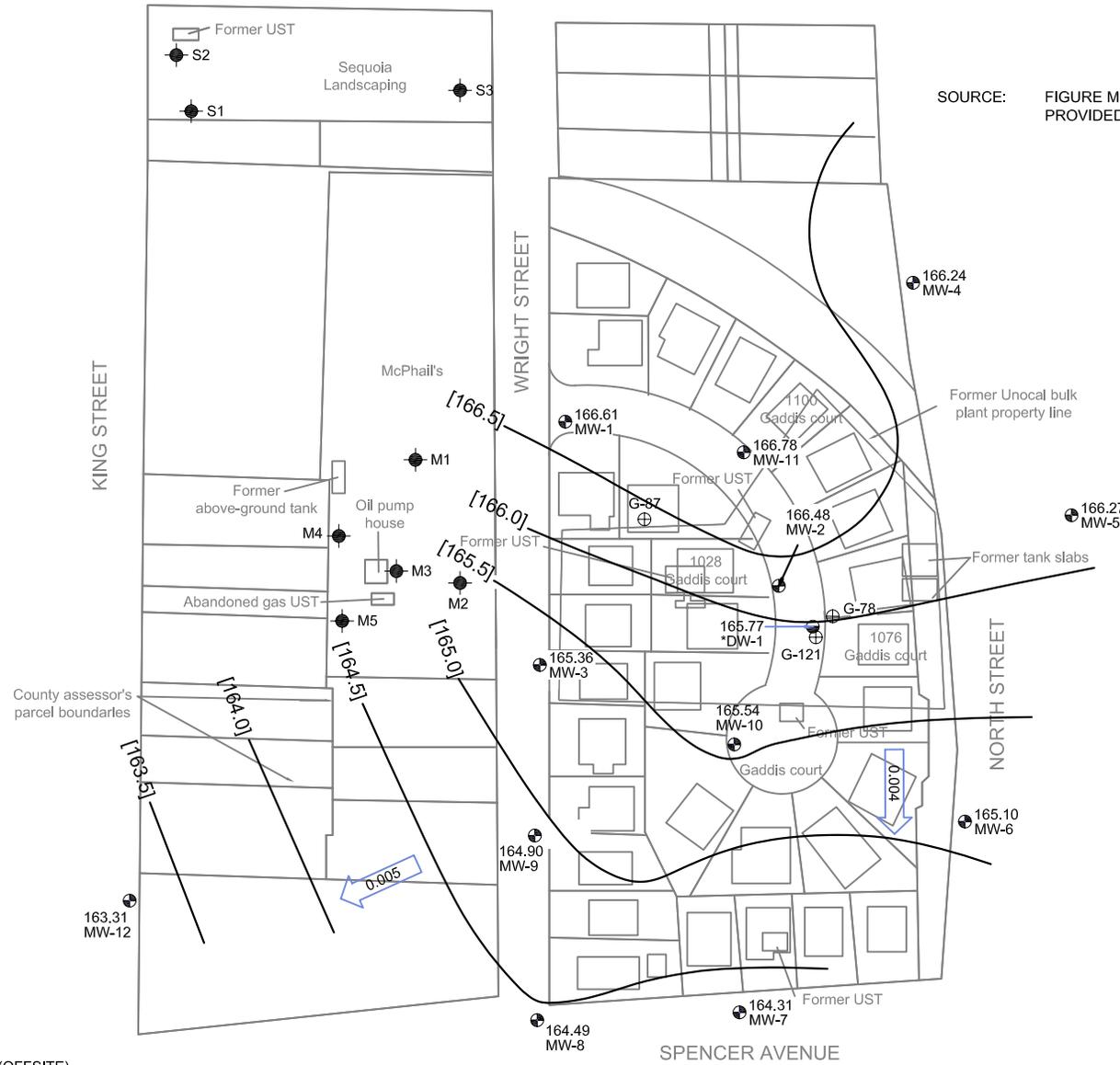
1

DRAWN BY
G BORCHARDT

DATE
4/8/2005 PR

PROJECT NUMBER
06940-362

SOURCE: FIGURE MODIFIED FROM EXISTING DRAWING PROVIDED BY GETTLER RYAN INC.



LEGEND

- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELLS (OFFSITE)
- FORMER GADDIS WELLS
- 152.34 GROUNDWATER ELEVATION IN FEET MEAN SEA LEVEL
- [153.50] GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT IN F/F'
- DEEP MONITORING WELL (* NOT USED IN CONTOURING)



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GROUNDWATER ELEVATION CONTOUR MAP

Former UNOCAL Station 1975
 1051 Spencer Avenue
 Santa Rosa, California

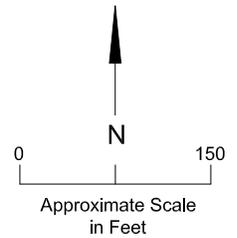
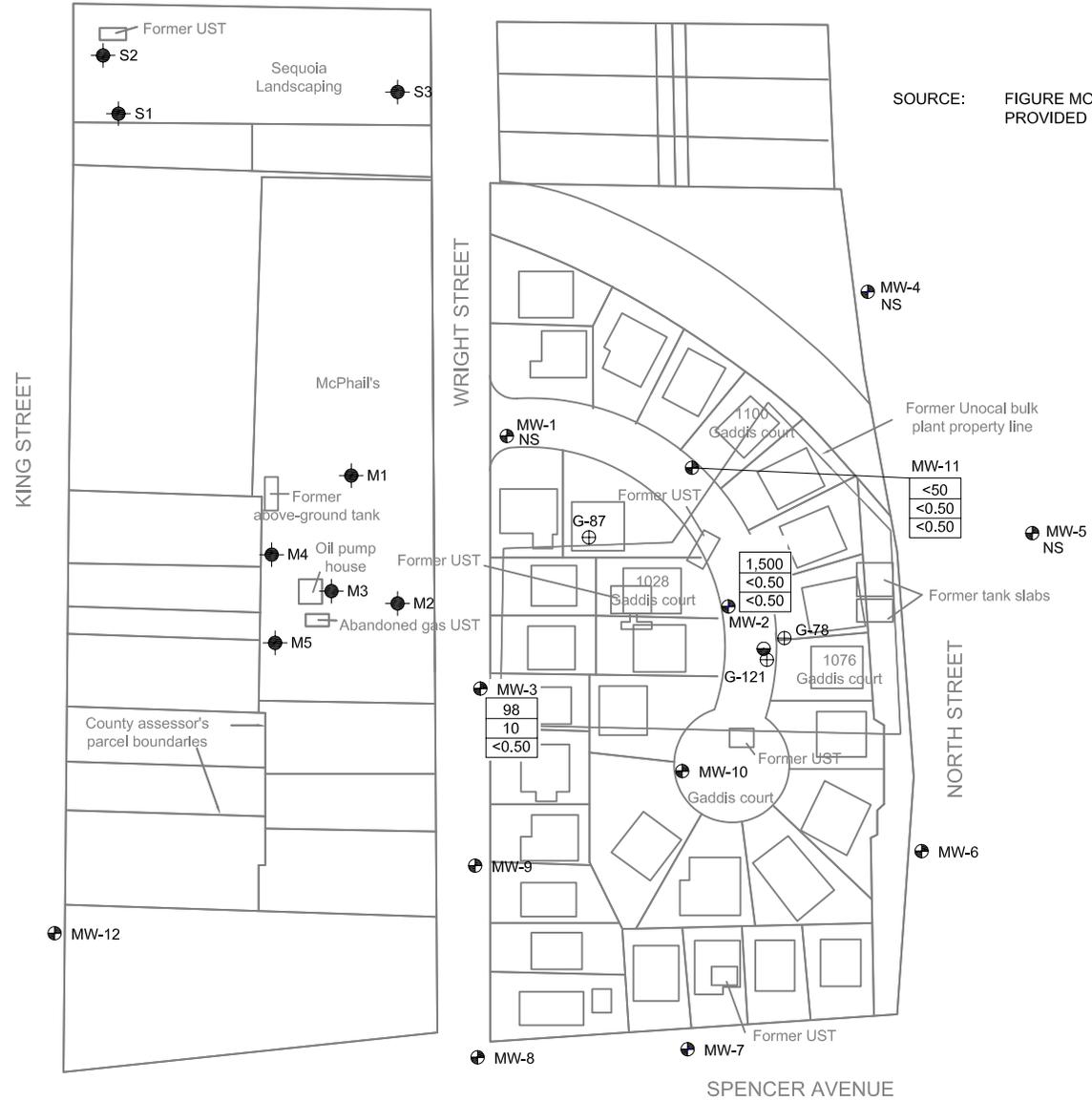
Semi-Annual Monitoring Reporting
 First Half 2005

DRAWN BY	DATE	PROJECT NUMBER
D PARTIDA	4/11/2005 PR	06940-362

FIGURE

3

SOURCE: FIGURE MODIFIED FROM EXISTING DRAWING PROVIDED BY GETTLER RYAN INC.



LEGEND

- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELLS (OFFSITE)
- FORMER GADDIS WELLS
- | | |
|-------|----------------------------|
| <50 | TPHg CONCENTRATION IN ug/L |
| <0.50 | BENZENE IN ug/L |
| <0.50 | MIBE IN ug/L |
- DEEP MONITORING WELL
- NOT ANALYZED
- NOT SAMPLED



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CONCENTRATION MAP

Former UNOCAL Station 1975
 1051 Spencer Avenue
 Santa Rosa, California

Semi-Annual Monitoring Report
 First Half 2005

DRAWN BY	DATE	PROJECT NUMBER
D PARTIDA	4/11/2005 PR	06940-362

FIGURE

4

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID/ TOC (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)
MW-1											
169.64*	3/11/2004	4.42	165.22	--	--	--	--	--	--	--	--
	9/20/2004	14.35	155.29	--	--	--	--	--	--	--	--
	3/23/2005	3.03	166.61	--	--	--	--	--	--	--	--
MW-2											
171.08*	3/11/2004	5.47	165.61	--	450	540	<0.5	<0.5	12	1.2	<1.0
	9/20/2004	15.75	155.33	--	410 ¹	1,400 ²	8.6	4.9	1,400	170	<0.5
	3/23/2005	4.60	166.48	--	1,000¹	1,500³	<0.50	0.64	42	5.9	<0.50
MW-3											
170.21*	3/11/2004	5.50	164.71	--	630	960	64	2.8	33	38	<1.0
	9/20/2004	15.40	154.81	--	1,300 ¹	1,600 ²	140	3.5	17	11	<0.5
	3/23/2005	4.85	165.36	--	<50	98³	10	<0.50	2.6	5.7	<0.50
MW-4											
169.99**	3/11/2004	4.85	165.14	--	--	--	--	--	--	--	--
	9/20/2004	15.30	154.69	--	--	--	--	--	--	--	--
	3/23/2005	3.75	166.24	--	--	--	--	--	--	--	--
MW-5											
170.17**	3/11/2004	4.75	165.42	--	--	--	--	--	--	--	--
	9/20/2004	15.30	154.87	--	--	--	--	--	--	--	--
	3/23/2005	3.90	166.27	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID/ TOC (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)
MW-6											
171.35**	3/11/2004	6.48	164.87	--	--	--	--	--	--	--	--
	9/20/2004	17.00	154.35	--	190 ¹	<50	0.73	<0.50	0.74	<1.0	--
	3/23/2005	6.25	165.10	--	--	--	--	--	--	--	--
MW-7											
171.16**	3/11/2004	6.82	164.34	--	--	--	--	--	--	--	--
	9/20/2004	17.00	154.16	--	180 ¹	<50	<0.50	<0.50	<0.50	<1.0	--
	3/23/2005	6.85	164.31	--	--	--	--	--	--	--	--
MW-8											
170.75**	3/11/2004	6.27	164.48	--	--	--	--	--	--	--	--
	9/20/2004	16.25	154.50	--	330 ¹	<50	<0.50	<0.50	<0.50	<1.0	--
	3/23/2005	6.26	164.49	--	--	--	--	--	--	--	--
MW-9											
170.46**	3/11/2004	5.75	164.71	--	--	--	--	--	--	--	--
	9/20/2004	15.85	154.61	--	260 ¹	<50	<0.50	<0.50	<0.50	<1.0	--
	3/23/2005	5.56	164.90	--	--	--	--	--	--	--	--
MW-10											
171.89**	3/11/2004	6.65	165.24	--	--	--	--	--	--	--	--
	9/20/2004	17.00	154.89	--	210 ¹	<50	<0.50	<0.50	<0.50	<0.50	<0.5
	3/23/2005	6.35	165.54	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID/ TOC (ft.)	DATE	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPHd (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MtBE (ug/L)
MW-11											
170.43**	3/11/2004	5.00	165.43	--	310	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	9/20/2004	15.15	155.28	--	2400 ¹	<50	<0.50	<0.50	<0.50	<0.50	<0.5
	3/23/2005	3.65	166.78	--	420¹	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-12											
168.84**	3/11/2004	5.65	163.19	--	--	--	--	--	--	--	--
	9/20/2004	16.50	152.34	--	220 ¹	<50	<0.50	<0.50	<0.50	<0.50	<0.5
	3/23/2005	5.53	163.31	--	--	--	--	--	--	--	--
DW-1											
171.27**	3/11/2004	6.07	165.20	--	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	9/20/2004	16.70	154.57	--	510 ¹	<50	<0.50	<0.50	<0.50	<0.50	<0.5
	3/23/2005	5.50	165.77	--	--	--	--	--	--	--	--
QA											
	3/11/2004	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.0	<1.0
	9/20/2004	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.5
	3/23/2005	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 16, 2004, were compiled from reports prepared by Gettler-Ryan, Inc.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

TPHg = Total Petroleum Hydrocarbons as Gasoline

TPHd = Total Petroleum Hydrocarbons as Diesel

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MtBE = Methyl tertiary butyl ether

(ug/L) = Micrograms per Liter

ND = Not Detected

-- = Not Measured/Not Analyzed

(D) = Duplicate Sample

QA = Quality Assurance/Trip Blank

* TOC elevations have been surveyed relative to msl, in 1991

** TOC elevations have been surveyed relative to msl, in 1994

¹ Although sample contains compounds in the retention time range associated with diesel, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on diesel.

² Although sample contains compounds in the retention time range associated with gasoline, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on gasoline.

³ Weathered gasoline.

Table 2
Groundwater Analytical Results - Semi-Volatile Organic Compounds. Pesticides Dissolved Lead
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID	DATE	Bis(2 ethylhexyl) phthalate <i>(ug/L)</i>	2-Methyl naphthalene <i>(ug/L)</i>	Naphthalene <i>(ug/L)</i>	OCL Pesticides <i>(ug/L)</i>	Dissolved Lead <i>(ug/L)</i>
MW-1	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--
MW-2	3/11/2004	<10	<10	13	--	<5.0
	9/20/2004	<10	<10	<10	--	<5.0
	3/23/2005	<10	32	17	--	<5.0
MW-3	3/11/2004	<10	15	15	--	<5.0
	9/20/2004	<10	<10	<10	--	<5.0
	3/23/2005	<10	<10	<10	--	<5.0
MW-4	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--
MW-5	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--
MW-6	3/11/2004	--	--	--	--	--
	9/21/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--

Table 2
Groundwater Analytical Results - Semi-Volatile Organic Compounds. Pesticides Dissolved Lead
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID	DATE	Bis(2 ethylhexyl) phthalate <i>(ug/L)</i>	2-Methyl naphthalene <i>(ug/L)</i>	Naphthalene <i>(ug/L)</i>	OCL Pesticides <i>(ug/L)</i>	Dissolved Lead <i>(ug/L)</i>
MW-7	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--
MW-8	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--
MW-9	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--
MW-10	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--
MW-11	3/11/2004	<10	<10	<10	--	<5.0
	9/20/2004	--	--	--	--	<5.0
	3/23/2005	--	--	--	--	<5.0
MW-12	3/11/2004	--	--	--	--	--
	9/20/2004	--	--	--	--	--
	3/23/2005	--	--	--	--	--

Table 2
Groundwater Analytical Results - Semi-Volatile Organic Compounds. Pesticides Dissolved Lead
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID	DATE	Bis(2 ethylhexyl) phthalate <i>(ug/L)</i>	2-Methyl naphthalene <i>(ug/L)</i>	Naphthalene <i>(ug/L)</i>	OCL Pesticides <i>(ug/L)</i>	Dissolved Lead <i>(ug/L)</i>
DW-1	3/11/2004	39	<10	<10	--	--
	9/20/2004	<10	<10	<10	ND	<5.0
	3/23/2005	--	--	--	--	--

Table 2
Groundwater Analytical Results - Semi-Volatile Compounds, Pesticides Dissolved Lead
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

EXPLANATIONS:

(ug/L) = Micrograms per Liter

-- = Not Analyzed

ND = Not Detected

ANALYTICAL METHODS:

EPA Method 8270C for Semi-Volatile Organic Compounds

Table 3
Groundwater Analytical Results - Volatile Organic Compounds
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID	DATE	Benzene (ug/L)	n-BB (ug/L)	sec-BB (ug/L)	EB (ug/L)	IPB (ug/L)	p-IPT (ug/L)	M Chlor (ug/L)	NAPHT (ug/L)	n-PB (ug/L)	Toluene (ug/L)	1,2,4-TCB (ug/L)	TCE (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Xylenes (ug/L)
MW-1	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	3/11/2004	<0.5	8.4	3.3	12	12	<0.50	<0.50	12	32	<0.50	<0.50	<0.50	0.63	0.53	1.2
	9/20/2004	8.6	51	26	1,400	260	7.0	<0.50	430	380	4.9	0.79	<0.50	120	110	170
	3/23/2005	<0.50	52	17	42	60	0.59	<0.50	5.1	150	0.64	<0.50	<0.50	<0.50	<0.50	5.9
MW-3	3/11/2004	64	9.1	2.4	33	22	<0.50	<0.50	10	50	2.8	<0.50	<0.50	27	9.9	38
	9/20/2004	140	14	9.5	17	54	<0.50	<0.50	18	110	3.5	<0.50	<0.50	7.2	3.3	11
	3/23/2005	10	0.64	<0.50	2.6	2.2	<0.50	<0.50	4.6	4.3	<0.50	<0.50	<0.50	0.97	0.54	5.7
MW-4	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/21/2004	0.73	<0.50	<0.50	0.74	<0.50	<0.50	0.80	2.6	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.65	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Groundwater Analytical Results - Volatile Organic Compounds

Former Unocal Bulk Plant No. 1975

1051 Spencer Avenue

Santa Rosa, California

WELL ID	DATE	Benzene (ug/L)	n-BB (ug/L)	sec-BB (ug/L)	EB (ug/L)	IPB (ug/L)	p-IPT (ug/L)	M Chlor (ug/L)	NAPHT (ug/L)	n-PB (ug/L)	Toluene (ug/L)	1,2,4-TCB (ug/L)	TCE (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Xylenes (ug/L)
MW-8	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.72	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<0.50	<1.0
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	3/11/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
MW-12	3/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DW-1	3/11/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA	9/20/2004	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0
	3/23/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0

Table 3
Groundwater Analytical Results - Volatile Organic Compounds
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

EXPLANATIONS:

n-BB = n-Butylbenzene
sec-BB = sec-Butylbenzene
EB = Ethylbenzene
IPB = Isopropylbenzene
p-IPT = p- Isopropyltoluene
M Chlor = Methylene chloride
NAPHT = Naphthalene
n-PB = n-Propylbenzene
1,2,4 TCB = 1,2,4 Trichlorobenzene
TCE = Trichloroethene
1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene

(ug/L) = Micrograms per Liter

-- = Not Analyzed

ND = Not Detected

ANALYTICAL METHODS:

EPA Method 8260B for Oxygenate Compounds

Table 4
Groundwater Analytical Results - CAM 17 Metals
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID	DATE	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Copper (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-1	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--
MW-2	3/11/2004	39	36	<20	<20	<20	<20	<5.0	<10	<20	<20
	9/20/2004	<5.0	140	<20	<20	<20	<20	<5.0	<10	<20	30
	3/23/2005	46	42	<20	<20	<20	<20	<5.0	<10	<20	<20
MW-3	3/11/2004	<5.0	110	<20	<20	<20	37	<5.0	<10	<20	<20
	9/20/2004	11	110	<20	<20	<20	25	<5.0	<10	<20	<20
	3/23/2005	<5.0	50	<20	<20	<20	<20	<5.0	<10	<20	<20
MW-4	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--
MW-5	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--
MW-6	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/21/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--

Table 4
Groundwater Analytical Results - CAM 17 Metals
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID	DATE	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Copper (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Vanadium (ug/L)	Zinc (ug/L)
MW-7	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--
MW-8	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--
MW-9	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--
MW-10	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--
MW-11	3/11/2004	18	42	<20	<20	<20	<20	<5.0	<10	<20	31
	9/20/2004	11	140	<20	<20	<20	35	<5.0	<10	<20	28
	3/23/2005	16	48	<20	<20	<20	<20	<5.0	<10	<20	<20
MW-12	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--

Table 4
Groundwater Analytical Results - CAM 17 Metals
 Former Unocal Bulk Plant No. 1975
 1051 Spencer Avenue
 Santa Rosa, California

WELL ID	DATE	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Copper (ug/L)	Nickel (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Vanadium (ug/L)	Zinc (ug/L)
DW-1	3/11/2004	--	--	--	--	--	--	--	--	--	--
	9/20/2004	--	--	--	--	--	--	--	--	--	--
	3/23/2005	--	--	--	--	--	--	--	--	--	--

Table 4
Groundwater Analytical Results - CAM 17 Metals
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

EXPLANATIONS:

(ug/L) = Micrograms per Liter

-- = Not Analyzed

ND = Not Detected

ANALYTICAL METHODS:

EPA Methods 200.7, 200.8 and 245.1

Table 5
Groundwater Analytical Results - Fuel Oxygenate Compounds by EPA Method 8260
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL ID	DATE	TAME (ppb)	TBA (ppb)	DIPE (ppb)	EDB (ppb)	1,2-DCA (ppb)	Ethanol (ppb)	ETBE (ppb)	MTBE (ppb)	Methanol (ppb)
MW-2	03/28/00	NA	NA	NA	< 5.00	< 5.00	NA	NA	< 5.00	NA
	03/27/01	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 500	< 2.0	< 2.0	NA
	09/27/01	< 100	< 2,000	< 100	< 100	< 100	< 10,000	< 100	< 100	NA
	03/23/02	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 500	< 2.0	< 2.0	<100
	09/26/02	< 25	< 250	< 25	< 25	< 25	< 2,500	< 25	< 25	NA
	03/31/03	< 25	< 250	< 25	< 25	< 25	< 2,500	< 25	< 25	NA
	09/29/03	< 25	<500	< 25	<12	<12	< 2,500	< 25	<12	NA
	03/11/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	NA	NA	NA	NA	NA	NA	19	NA	NA
MW-3	03/28/00	NA	NA	NA	< 5.00	< 5.00	NA	NA	< 10.0	NA
	03/27/01	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 500	< 2.0	< 2.0	NA
	09/27/01	< 100	< 2,000	< 100	< 100	< 100	< 10,000	< 100	< 100	NA
	03/23/02	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 500	< 2.0	< 2.0	<100
	09/26/02	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 500	< 5.0	< 5.0	NA
	03/31/03	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 500	< 5.0	< 5.0	NA
	09/29/03	<10	<200	<10	< 5.0	<5	<1,000	<10	<5	NA
	03/11/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	NA	NA	NA	NA	NA	NA	18	NA	NA
MW-6	09/27/01	< 1.0	< 20	< 1.0	< 0.50	< 0.50	< 100	< 1.0	< 0.50	NA
	09/21/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	--	--	--	--	--	--	--	--	--
MW-7	09/27/01	< 1.0	< 20	< 1.0	< 0.50	< 0.50	< 100	< 1.0	< 0.50	NA
	09/29/03	<0.5	<5	<0.5	<0.5	<0.5	<100	<0.5	< 0.50	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	--	--	--	--	--	--	--	--	--

Table 5
Groundwater Analytical Results - Fuel Oxygenate Compounds by EPA Method 8260
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

MW-8	09/27/01	< 1.0	< 20	< 1.0	< 0.50	< 0.50	< 100	< 1.0	< 0.50	NA
	09/29/03	<0.5	<5	<0.5	<0.5	<0.5	<100	<0.5	< 0.50	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	--	--	--	--	--	--	--	--	--
MW-9	09/27/01	< 1.0	< 20	< 1.0	< 0.50	< 0.50	< 100	< 1.0	< 0.50	NA
	09/29/03	<0.5	<5	<0.5	<0.5	<0.5	<100	<0.5	< 0.50	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	--	--	--	--	--	--	--	--	--
MW-10	09/27/01	< 1.0	< 20	< 1.0	< 0.50	< 0.50	< 100	< 1.0	< 0.50	NA
	09/29/03	<0.5	<5	<0.5	<0.5	<0.5	<100	<0.5	< 0.50	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	--	--	--	--	--	--	--	--	--
MW-11	03/28/00	NA	NA	NA	< 5.00	< 5.00	NA	NA	< 1.00	NA
	03/27/01	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 500	< 2.0	< 2.0	NA
	09/27/01	< 1.0	< 20	< 1.0	< 0.50	< 0.50	< 100	< 1.0	< 0.50	NA
	03/23/02	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 500	< 2.0	< 2.0	<100
	09/26/02	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 50	< 0.50	< 0.50	NA
	03/31/03	< 1.0	< 20	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	NA
	09/29/03	<1	<20	<1	< 0.50	< 0.50	<100	<1	< 0.50	NA
	03/11/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	NA	NA	NA	NA	NA	12	NA	NA	NA
MW-12	09/27/01	< 1.0	< 20	< 1.0	< 0.50	< 0.50	< 100	< 1.0	< 0.50	NA
	09/29/03	<0.5	<5	<0.5	<0.5	<0.5	<100	<0.5	< 0.50	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	--	--	--	--	--	--	--	--	--
DW-1	03/11/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	NA
	09/20/04	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	03/23/05	--	--	--	--	--	--	--	--	--

Table 5
Groundwater Analytical Results - Fuel Oxygenate Compounds by EPA Method 8260
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

Explanations:

MTBE

TAME = Tert-amyl methyl ether
TBA = Tert-butyl alcohol
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
1,2-DCA = 1,2-Dichloroethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
NA = Not analyzed
-- = Not Sampled

ATTACHMENT A
FIELD METHODS AND PROCEDURES

FIELD METHODS AND PROCEDURES

The following section describes field procedures that are to be used by ENSR personnel in the performance of the tasks involved with this project.

1. HEALTH AND SAFETY PLAN

Fieldwork performed by ENSR and ENSR's subcontractors at the site will be conducted according to guidelines established in a Health And Safety Plan (HASP). The HASP is a document that describes the hazards that may be encountered in the field and specifies protective equipment, work procedures and emergency information. A copy of the HASP will be at the site and available for reference by appropriate parties during work at the site.

2. GROUNDWATER DEPTH ASSESSMENT

A water/product interface probe is used to assess the liquid-phase hydrocarbons (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for LPH sheen.

3. SUBJECTIVE ANALYSIS OF GROUNDWATER

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

4. MONITORING WELL SAMPLING

Monitoring wells are purged using a pump or bailer until pH, temperature and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. The purge water is placed in 55-gallon drums and temporarily stored on-site pending evaluation of disposal options. If three well volumes cannot be removed in one-half an hour's time, the well is allowed to recharge to 80 percent of original level. After recharging, a groundwater sample is then removed from each of the wells using a pump or disposable

bailer. The water sample is collected, labeled and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of according to the accepted regulatory method pertaining to the site.

5. QUALITY ASSURANCE PLAN

This section describes the field and analytical procedures to be followed by ENSR throughout the investigation.

5.1 General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample will be collected in the appropriate container, preserved correctly for the intended analysis and stored, prior to analysis, for no longer than the maximum allowable holding time.

5.2 Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures ensure sample integrity and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis will have a label affixed to identify the job number, sampler, date and time of sample collection and a sample number unique to that sample. During soil sampling, this information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel and any other pertinent field observations will be recorded on the borehole log or in the field records.

ATTACHMENT B
GROUNDWATER SAMPLING INFORMATION SHEETS



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, CA
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-1**

Well Piezometer

Well Purging:

Date Purged: _____
Purge Method: Disposable bailer/other _____

Field Tech(s): _____

Weather Conditions: _____

Casing Material: _____
Well Diameter: _____ 2.00 in.
Total Depth: _____ 18.94 ft from TOC
Depth to Water: _____ ft from TOC
Water Column: _____ ft.
Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: NOT SAMPLED

Date Sampled: _____
Sampling Method: Disposable Bailer/Other _____
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
				Monitor Only	

Comments: **DTW ONLY / NOT SAMPLED**

Signature _____ Date _____



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-4**

Well Piezometer

Well Purging:

Date Purged: _____
Purge Method: Disposable bailer/other _____

Field Tech(s): _____

Weather Conditions: _____

Casing Material: _____

Well Diameter: _____ 2.00 in.

Total Depth: _____ 19.66 ft from TOC

Depth to Water: _____ ft from TOC

Water Column: _____ ft.

Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Colle Sample Collection: NOT SAMPLED

Date Sampled: _____
Sampling Method: Disposable Bailer/Other _____
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
				Monitor Only	

Comments _____

Signature _____ Date _____



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-5**

Well Piezometer

Well Purging:

Date Purged: _____
Purge Method: Disposable bailer/other _____

Field Tech(s): _____

Weather Conditions: _____

Casing Material: _____
Well Diameter: 2.00 in.
Total Depth: 19.84 ft from TOC
Depth to Water: _____ ft from TOC
Water Column: _____ ft.
Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: NOT SAMPLED

Date Sampled: _____
Sampling Method: Disposable Bailer/Other _____
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
				Monitor Only	

Comments _____

Signature _____ Date _____



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-10**

Well Piezometer

Well Purging:

Date Purged: 2/105

Purge Method: Disposable bailer/other _____

Field Tech(s): Tanya Ahoua

Weather Conditions: Wet Rainy

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 19.56 ft from TOC

Depth to Water: _____ ft from TOC

Water Column: _____ ft.

Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: ANNUAL

Date Sampled: 2/105

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW10	6	40-mL Glass Vial	Ice/HCl	TPHg 8015M; BTEX, 5-Oxy's, 1,2, DCA, EDB by 8260	
MW10	1	250-mL Amber Glass	Ice/NP	TPHd with silica gel clean up 8015M	

Comments _____ Vol

Signature Tanya I Ahoua

Date 2/105



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: MW-11

Well Piezometer

Well Purging:

Date Purged: 2/1/05

Purge Method: Disposable bailer/other _____

Field Tech(s): Tanya Ahoval

Weather Conditions: Wet Raining

Casing Material: PVC

Well Diameter: 2.00 in.

Total Depth: 19.66 ft from TOC

Depth to Water: _____ ft from TOC

Water Column: _____ ft.

Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: SEMI-ANNUAL

Date Sampled: 2/1/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW 11	6	40-mL Glass Vial	Ice/HCl	TPHg 8015M; BTEX, volatiles, 5-Oxy's, 1,2, DCA, EDB by 8260	
MW 11	1	250-mL Amber Glass	Ice/NP	TPHd with silica gel clean up 8015M	
	1	500-mL Poly	Ice/NP	CAM-17 dissolved metals 200.8	

Comments _____ V/C)

Signature Tanya Ahoval Date 2/1/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-12**

Well Piezometer

Well Purging:

Date Purged: 2/10/05

Purge Method: Disposable bailer/other _____

Field Tech(s): Tanya Ahoual

Weather Conditions: wet Raining

Casing Material: _____

PVC

Well Diameter: 2.00 in.

Total Depth: 19.86 ft from TOC

Depth to Water: _____ ft from TOC

Water Column: _____ ft

Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	<u>2" = .16</u>	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: ANNUAL

Date Sampled: 2/10/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
<u>MW12</u>	6	40-mL Glass Vial	Ice/HCl	TPHg 8015M; BTEX, 5-Oxy's, 1,2, DCA, EDB by 8260	
<u>MW12</u>	1	250-mL Amber Glass	Ice/NP	TPHd with silica gel clean up 8015M	

Comments _____ Vol C

Signature Tanya J Ahoual

Date 2/10/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-7**

Well Piezometer

Well Purging:

Date Purged: 2/1/05

Purge Method: Disposable bailer/other _____

Field Tech(s): Tanya Ahoual

Weather Conditions: Wet Raining

Casing Material: _____

Well Diameter: _____

PVC
2.00 in.

Total Depth: 19.59 ft from TOC

Depth to Water: _____ ft from TOC

Water Column: _____ ft.

Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: ANNUAL

Date Sampled: 2/1/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
<u>mw7</u>	<u>6</u>	<u>40-mL Glass Vial</u>	<u>Ice/HCl</u>	<u>TPHg 8015M; BTEX, 5-Oxy's, 1,2, DCA, EDB by 8260</u>	
<u>mw7</u>	<u>1</u>	<u>250-mL Amber Glass</u>	<u>Ice/NP</u>	<u>TPHd with silica gel clean up 8015M</u>	

Comments _____

W/C

Signature Tanya Ahoual

Date 2/1/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-8**

Well Piezometer

Well Purging:

Date Purged: 2/10/05

Purge Method: Disposable bailer/other _____

Field Tech(s): Tanya Ahoual

Weather Conditions: Wet Raining

Casing Material: _____

Well Diameter: PVC 2.00 in.

Total Depth: 19.67 ft from TOC

Depth to Water: _____ ft from TOC

Water Column: _____ ft.

Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	<u>2" = .16</u>	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

C S

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: ANNUAL

Date Sampled: 2/10/05

Sampling Method: Disposable Bailer/Other Bailed

Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
<u>mw8</u>	6	40-mL Glass Vial	Ice/HCl	TPHg 8015M; BTEX, 5-Oxy's, 1,2, DCA, EDB by 8260	
<u>mw8</u>	1	250-mL Amber Glass	Ice/NP	TPHd with silica gel clean up 8015M	

Comments _____

U6 / C

Signature Tanya L Ahoual

Date 2/10/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-9**

Well Piezometer

Well Purging: 2/105
Date Purged: 2/105
Purge Method: Disposable bailer/other _____

Field Tech(s): Tanya Akhwal

Weather Conditions: wet Raining

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 19.75 ft from TOC
Depth to Water: _____ ft from TOC
Water Column: _____ ft.
Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: **ANNUAL**
Date Sampled: 2/105
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
<u>mw9</u>	<u>6</u>	<u>40-mL Glass Vial</u>	<u>Ice/HCl</u>	<u>TPHg 8015M; BTEX, 5-Oxy's, 1,2, DCA, EDB by 8260</u>	
<u>mw9</u>	<u>1</u>	<u>250-mL Amber Glass</u>	<u>Ice/NP</u>	<u>TPHd with silica gel clean up 8015M</u>	

Comments _____ Vol (C)

Signature Tanya Akhwal Date 2/105



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **MW-6**

Well Piezometer

Well Purging:
Date Purged: 2/1/05
Purge Method: Disposable bailer/other _____

Field Tech(s): Tanya Ahoual

Weather Conditions: Wet Raining

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 19.71 ft from TOC
Depth to Water: _____ ft from TOC
Water Column: _____ ft.
Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: **ANNUAL**
Date Sampled: 2/1/05
Sampling Method: Disposable Bailer/Other Bailed
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW6	6	40-mL Glass Vial	Ice/HCl	TPHg 8015M; BTEX, 5-Oxy's, 1,2, DCA, EDB by 8260	
MW6	1	250-mL Amber Glass	Ice/NP	TPHd with silica gel clean up 8015M	

Comments _____ U&C

Signature Tanya Ahoual Date 2/1/05



GROUNDWATER SAMPLING DATA SHEET

Site Address: 1051 Spencer Avenue, Santa Rosa, Ca.
ENSR No. 06940-362-100
Unocal No. 1975

Well/Piezo ID: **DW-1**

Well Piezometer

Well Purging:

Date Purged: MONITOR ONLY
Purge Method: Disposable bailer/other spigot

Field Tech(s): Tanya Aboual
Weather Conditions: Wet Raining

Casing Material: _____
Well Diameter: _____ 6.00 in.
Total Depth: _____ UNK ft from TOC
Depth to Water: _____ ft from TOC
Water Column: _____ ft.
Water Column Volume: _____ gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = _____

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
0										
1										
2										
3										
4										

Sample Collection: 3rd QTR 2004 ONLY
Date Sampled: _____
Sampling Method: Disposable Bailer/Other _____
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
	6	40-mL Glass Vial	Ice/HCl	TPHg 8015M; BTEX, 5-Oxy's, 1,2, DCA, EDB, VOC's by 8260; SVOC's 8270	
	1	250-mL Amber Glass	Ice/NP	TPHd with silica gel clean up 8015M	
	1	500-mL Poly	Ice/NP	dissolved lead by EPA Method 200.8	
	1	1-Liter Amber Glass	Ice/NP	OCL Pesticides by EPA Method 8081A	
	1	1-Liter Amber Glass	Ice/NP	SVOCs 8270	

Comments ONE TIME SAMPLE REQUESTED BY RWQCB-NCR 3RD QTR 2004

Signature _____ Date _____

ATTACHMENT C

**LABORATORY ANALYTICAL RESULTS WITH
CHAIN-OF-CUSTODY DOCUMENTATION**

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

April 04, 2005

CLS Work Order #: COC0810
COC #: 1, 2

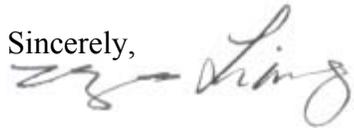
David Peacock
ENSR - Sacramento
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508

**Project Name: Frmr. Unocal 1975, 1051 Spencer
Ave., Santa Rosa**

Enclosed are the results of analyses for samples received by the laboratory on 03/23/05 18:20. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "James Liang".

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

250810



CHAIN OF CUSTODY

Lab: CLS

TAT: Standard

Report results to:

Name David Peacock
 Company ENSR
 Mailing Address 10411 Old Placerville Road, Suite 210
 City, State, Zip Sacramento, CA 95827-2508
 Telephone No. 916-362-7100 ext.315
 Fax No. 916-362-8100

Project Information

Site Address: 1051 Spencer Avenue, Santa Rosa, CA
 ENSR No. 06940-362-100
 Unocal No. 1975
 Global No. T0609700636

Analyses Requested

Special instructions and/or specific regulatory requirements:

Detection limit for MTBE by 8260 must be 1.0ppb
 MW-2, MW-3 and MW-11 require poly bottles and field screening for metals

Please send edf to: dpeacock@ensr.com

Sample Identification	Date Sampled	Time Sampled	Matrix/Media	No. of Conts.	TPHg 8260	BTEX 8260	TBA, MTBE, DIPE, ETBE, TAME, 1,2 DCA, EDB, Ethanol by 8260	TPHd with silica gel clean up 8015M	CAM-17 dissolved metals						Sample Condition/Comments	Preservative
MW-11	3-23-05	14:45	GW	4 / 40 mL glass voa	X	X	X									HCl
MW-11	3-23-05	14:45	GW	1 - 250 mL Amber glass				X								NONE
MW-11	3-23-05	14:45	GW	1 - 500 mL Poly					X							HNO3 Nitric
QA	3-23-05	12:40	Water	240ml glass vial	X	X										HCl

Collected by: Troy Webster Date/Time 3-23-05 18:20
 Relinquished by: Troy Webster Date/Time 3-23-05 18:20
 Relinquished by: _____ Date/Time _____
 Method of Shipment: _____

Collector's Signature: [Signature] Date/Time 3-23-05 18:20
 Received by: _____ Date/Time _____
 Received by: _____ Date/Time 3-23-05 18:20
 Sample Condition on Rept: _____

*

200810



CHAIN OF CUSTODY

Lab: CLS

TAT: Standard

Report results to:

Name David Peacock
 Company ENSR
 Mailing Address 10411 Old Placerville Road, Suite 210
 City, State, Zip Sacramento, CA 95827-2508
 Telephone No. 916-362-7100 ext.315
 Fax No. 916-362-8100

Project Information

Site Address: 1051 Spencer Avenue, Santa Rosa, CA
 ENSR No. 06940-362-100
 Unocal No. 1975
 Global ID No. T0609700636

Special instructions and/or specific regulatory requirements:
Detection limit for MTBE by 8260 must be 1.0ppb
MW-2, MW-3 and MW-11 require poly bottles and field screening for metals

Please send edf to: dpeacock@ensr.com

Sample Identification	Date Sampled	Time Sampled	Matrix/Media	No. of Concs.	Analyses Requested										Sample Condition/Comments	Preservative	
					TPHg 8260	BTEX 8260	TBA, MTBE, DIPE, ETBE, TAME, 1,2 DCA, EDB, Ethanol by 8260	TPHd with silica gel clean up 8015M	CAM-17 dissolved metals	SVOC's 8270							
MW-2	3-23-05	13:15	GW	4 / 40 mL glass voa	X	X	X										HCl
MW-2	3-23-05	13:15	GW	1 - 250 mL Amber glass				X									NONE
MW-2	3-23-05	13:15	GW	1 - 500 mL Poly					X								HNO3(nitric)
MW-2	3-23-05	13:15	GW	1 - L Amber glass						X							NONE
MW-3	3-23-05	14:00	GW	4/ 40 mL glass voa	X	X	X										HCl
MW-3	3-23-05	14:00	GW	1 - 250 L Amber glass				X									NONE
MW-3	3-23-05	14:00	GW	1 - 500 mL Poly					X								HNO3(nitric)
MW-3	3-23-05	14:00	GW	1 - L Amber glass						X							NONE

Collected by: [Signature] Date/Time 3-23-05 Collector's Signature: [Signature] Date/Time 3/23/05 18:20
 Relinquished by: [Signature] Date/Time 3-23-05 18:20 Received by: [Signature] Date/Time 3-23-05 18:20
 Relinquished by: [Signature] Date/Time 3-23-05 18:20 Received by: [Signature] Date/Time 3-23-05 18:20
 Method of Shipment: _____ Sample Condition on Rcpt: _____

* _____

CALIFORNIA LABORATORY SERVICES

04/04/05 11:52

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
--	---	---

CAM 17 Metals (Dissolved Metals)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20

Antimony	ND	50	µg/L	1	CO02270	03/25/05	03/28/05	EPA 200.7	
Barium	42	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	ND	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	46	5.0	"	"	CO02269	03/25/05	03/28/05	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	ND	0.20	"	"	CO02204	03/24/05	03/24/05	EPA 245.1	

MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20

Antimony	ND	50	µg/L	1	CO02270	03/25/05	03/28/05	EPA 200.7	
Barium	50	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	ND	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	CO02269	03/25/05	03/28/05	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

04/04/05 11:52

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
--	---	---

CAM 17 Metals (Dissolved Metals)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
Mercury	ND	0.20	µg/L	1	CO02204	03/24/05	03/24/05	EPA 245.1	
MW-11 (COC0810-03) Water Sampled: 03/23/05 14:45 Received: 03/23/05 18:20									
Antimony	ND	50	µg/L	1	CO02270	03/25/05	03/28/05	EPA 200.7	
Barium	48	20	"	"	"	"	"	"	
Beryllium	ND	5.0	"	"	"	"	"	"	
Cadmium	ND	10	"	"	"	"	"	"	
Cobalt	ND	20	"	"	"	"	"	"	
Chromium	ND	20	"	"	"	"	"	"	
Copper	ND	20	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	ND	20	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Vanadium	ND	20	"	"	"	"	"	"	
Zinc	ND	20	"	"	"	"	"	"	
Arsenic	16	5.0	"	"	CO02269	03/25/05	03/28/05	EPA 200.8	
Lead	ND	5.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	10	"	"	"	"	"	"	
Mercury	ND	0.20	"	"	CO02204	03/24/05	03/24/05	EPA 245.1	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

04/04/05 11:52

ENSR - Sacramento
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508

Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa
Project Number: 06940-362-100
Project Manager: David Peacock
CLS Work Order #: COC0810
COC #: 1, 2

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water	Sampled: 03/23/05 13:15		Received: 03/23/05 18:20						C-03C
Diesel	1.0	0.050	mg/L	1	CO02213	03/24/05	03/24/05	EPA 8015M	DSL-1
MW-3 (COC0810-02) Water	Sampled: 03/23/05 14:00		Received: 03/23/05 18:20						C-03C
Diesel	ND	0.050	mg/L	1	CO02213	03/24/05	03/24/05	EPA 8015M	
MW-11 (COC0810-03) Water	Sampled: 03/23/05 14:45		Received: 03/23/05 18:20						C-03C
Diesel	0.42	0.050	mg/L	1	CO02213	03/24/05	03/24/05	EPA 8015M	DSL-1

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

04/04/05 11:52

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20									
Acenaphthene	ND	10	µg/L	1	CO02265	03/25/05	03/31/05	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	10	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	10	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	10	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	20	"	"	"	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
Dimethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene (2,4-DNT)	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene (2,6-DNT)	ND	10	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	10	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Hexachlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20									
Hexachlorocyclopentadiene	ND	10	µg/L	1	CO02265	03/25/05	03/31/05	EPA 8270C	
Hexachloroethane	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylnaphthalene	32	10	"	"	"	"	"	"	
Naphthalene	17	10	"	"	"	"	"	"	
2-Nitroaniline	ND	25	"	"	"	"	"	"	
3-Nitroaniline	ND	25	"	"	"	"	"	"	
4-Nitroaniline	ND	25	"	"	"	"	"	"	
Nitrobenzene (NB)	ND	10	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Benzoic acid	ND	25	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	25	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	25	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	10	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	25	"	"	"	"	"	"	
Pentachlorophenol	ND	25	"	"	"	"	"	"	
Phenol	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		60.3 %		21-110	"	"	"	"	
<i>Surrogate: Phenol-d5</i>		43.9 %		10-110	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		62.2 %		35-114	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		75.2 %		43-116	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20									
Surrogate: 2,4,6-Tribromophenol		89.1 %	10-123		CO02265	03/25/05	03/31/05	EPA 8270C	
Surrogate: Terphenyl-dl4		88.6 %	33-141		"	"	"	"	
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
Acenaphthene	ND	10	µg/L	1	CO02265	03/25/05	03/31/05	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	10	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	10	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	20	"	"	"	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
Dimethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene (2,4-DNT)	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene (2,6-DNT)	ND	10	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
Fluoranthene	ND	10	µg/L	1	CO02265	03/25/05	03/31/05	EPA 8270C	
Fluorene	ND	10	"	"	"	"	"	"	
Hexachlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	"	"	"	"	"	"	
Hexachloroethane	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
2-Nitroaniline	ND	25	"	"	"	"	"	"	
3-Nitroaniline	ND	25	"	"	"	"	"	"	
4-Nitroaniline	ND	25	"	"	"	"	"	"	
Nitrobenzene (NB)	ND	10	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Benzoic acid	ND	25	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	25	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	25	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	10	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	25	"	"	"	"	"	"	
Pentachlorophenol	ND	25	"	"	"	"	"	"	
Phenol	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	

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Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa
Project Number: 06940-362-100
Project Manager: David Peacock
CLS Work Order #: COC0810
COC #: 1, 2

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
Surrogate: 2-Fluorophenol		60.4 %	21-110		CO02265	03/25/05	03/31/05	EPA 8270C	
Surrogate: Phenol-d5		43.1 %	10-110		"	"	"	"	
Surrogate: Nitrobenzene-d5		73.2 %	35-114		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		74.8 %	43-116		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		85.1 %	10-123		"	"	"	"	
Surrogate: Terphenyl-d14		87.2 %	33-141		"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

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CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
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TPH-Gasoline by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20									
Gasoline	1500	50	µg/L	1	CO02274	03/25/05	03/25/05	EPA 8015M	GC-25
<i>Surrogate: o-Chlorotoluene (Gas)</i>		95.0 %	65-135		"	"	"	"	
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
Gasoline	98	50	µg/L	1	CO02274	03/25/05	03/25/05	EPA 8015M	GC-25
<i>Surrogate: o-Chlorotoluene (Gas)</i>		88.0 %	65-135		"	"	"	"	
MW-11 (COC0810-03) Water Sampled: 03/23/05 14:45 Received: 03/23/05 18:20									
Gasoline	ND	50	µg/L	1	CO02274	03/25/05	03/25/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		98.0 %	65-135		"	"	"	"	
QA (COC0810-04) Water Sampled: 03/23/05 12:40 Received: 03/23/05 18:20									
Gasoline	ND	50	µg/L	1	CO02274	03/25/05	03/25/05	EPA 8015M	
<i>Surrogate: o-Chlorotoluene (Gas)</i>		102 %	65-135		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20									
Acetone	ND	10	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	52	0.50	"	"	"	"	"	"	
sec-Butylbenzene	17	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa
Project Number: 06940-362-100
Project Manager: David Peacock
CLS Work Order #: COC0810
COC #: 1, 2

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20									
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	42	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	60	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	0.59	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Naphthalene	5.1	0.50	"	"	"	"	"	"	
n-Propylbenzene	150	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	0.64	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	5.9	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (COC0810-01) Water Sampled: 03/23/05 13:15 Received: 03/23/05 18:20									
Surrogate: 1,2-Dichloroethane-d4		129 %		66-135	CO02217	03/24/05	03/24/05	EPA 8260B	
Surrogate: Toluene-d8		104 %		72-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %		73-125	"	"	"	"	
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
Acetone	ND	10	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
Benzene	10	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	0.64	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

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ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	2.6	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	2.2	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Naphthalene	4.6	0.50	"	"	"	"	"	"	
n-Propylbenzene	4.3	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.97	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.54	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	5.7	1.0	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (COC0810-02) Water Sampled: 03/23/05 14:00 Received: 03/23/05 18:20									
Di-isopropyl ether	ND	0.50	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	66-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %	72-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	73-125	"	"	"	"	"	
MW-11 (COC0810-03) Water Sampled: 03/23/05 14:45 Received: 03/23/05 18:20									
Acetone	ND	10	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	

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ENSR - Sacramento
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508

Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa
Project Number: 06940-362-100
Project Manager: David Peacock
CLS Work Order #: COC0810
COC #: 1, 2

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (COC0810-03) Water Sampled: 03/23/05 14:45 Received: 03/23/05 18:20									
Dichlorodifluoromethane (Freon 12)	ND	1.0	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (COC0810-03) Water Sampled: 03/23/05 14:45 Received: 03/23/05 18:20									
1,2,3-Trichloropropane	ND	0.50	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %	66-135	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>	101 %	72-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	73-125	"	"	"	"	"	"

QA (COC0810-04) Water Sampled: 03/23/05 12:40 Received: 03/23/05 18:20

Acetone	19	10	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	0.68	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	

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ENSR - Sacramento
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508

Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa
Project Number: 06940-362-100
Project Manager: David Peacock
CLS Work Order #: COC0810
COC #: 1, 2

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
QA (COC0810-04) Water Sampled: 03/23/05 12:40 Received: 03/23/05 18:20									
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
QA (COC0810-04) Water Sampled: 03/23/05 12:40 Received: 03/23/05 18:20									
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1	CO02217	03/24/05	03/24/05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
Tert-butyl alcohol	43	5.0	"	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	121 %	66-135	"	"	"	"
Surrogate: Toluene-d8	99.4 %	72-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	73-125	"	"	"	"

CALIFORNIA LABORATORY SERVICES

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CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO02204 - EPA 7470A										
Blank (CO02204-BLK1) Prepared & Analyzed: 03/24/05										
Mercury	ND	0.20	µg/L							
LCS (CO02204-BS1) Prepared & Analyzed: 03/24/05										
Mercury	5.98	0.20	µg/L	5.00		120	75-125			
LCS Dup (CO02204-BS1) Prepared & Analyzed: 03/24/05										
Mercury	5.50	0.20	µg/L	5.00		110	75-125	8.36	25	
Matrix Spike (CO02204-MS1) Source: COC0774-01 Prepared & Analyzed: 03/24/05										
Mercury	5.85	0.20	µg/L	5.00	0.17	114	75-125			
Matrix Spike Dup (CO02204-MS1) Source: COC0774-01 Prepared & Analyzed: 03/24/05										
Mercury	5.78	0.20	µg/L	5.00	0.17	112	75-125	1.20	25	
Batch CO02269 - EPA 3020A										
Blank (CO02269-BLK1) Prepared: 03/25/05 Analyzed: 03/28/05										
Arsenic	ND	5.0	µg/L							
Lead	ND	5.0	"							
Selenium	ND	5.0	"							
Thallium	ND	10	"							
LCS (CO02269-BS1) Prepared: 03/25/05 Analyzed: 03/28/05										
Arsenic	113	5.0	µg/L	100		113	80-120			
Lead	97.2	5.0	"	100		97.2	80-120			
Selenium	106	5.0	"	100		106	80-120			
Thallium	97.2	10	"	100		97.2	80-120			

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CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02269 - EPA 3020A

LCS Dup (CO02269-BSD1)

Prepared: 03/25/05 Analyzed: 03/28/05

Arsenic	112	5.0	µg/L	100		112	80-120	0.889	20	
Lead	98.1	5.0	"	100		98.1	80-120	0.922	20	
Selenium	105	5.0	"	100		105	80-120	0.948	20	
Thallium	98.6	10	"	100		98.6	80-120	1.43	20	

Matrix Spike (CO02269-MS1)

Source: COC0847-01

Prepared: 03/25/05 Analyzed: 03/28/05

Arsenic	109	5.0	µg/L	100	0.58	108	75-125			
Lead	97.0	5.0	"	100	ND	97.0	75-125			
Selenium	105	5.0	"	100	1.5	104	75-125			
Thallium	97.2	10	"	100	ND	97.2	75-125			

Matrix Spike Dup (CO02269-MSD1)

Source: COC0847-01

Prepared: 03/25/05 Analyzed: 03/28/05

Arsenic	103	5.0	µg/L	100	0.58	102	75-125	5.66	25	
Lead	95.7	5.0	"	100	ND	95.7	75-125	1.35	25	
Selenium	97.7	5.0	"	100	1.5	96.2	75-125	7.20	25	
Thallium	96.2	10	"	100	ND	96.2	75-125	1.03	25	

Batch CO02270 - EPA 3010A

Blank (CO02270-BLK1)

Prepared: 03/25/05 Analyzed: 03/28/05

Antimony	ND	50	µg/L							
Barium	ND	20	"							
Beryllium	ND	5.0	"							
Cadmium	ND	10	"							
Cobalt	ND	20	"							
Chromium	ND	20	"							
Copper	ND	20	"							
Molybdenum	ND	20	"							
Nickel	ND	20	"							
Silver	ND	10	"							
Vanadium	ND	20	"							
Zinc	ND	20	"							

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CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02270 - EPA 3010A

LCS (CO02270-BS1)				Prepared: 03/25/05		Analyzed: 03/28/05	
Antimony	540	50	µg/L	500	108	80-120	
Barium	2120	20	"	2000	106	80-120	
Beryllium	54.6	5.0	"	50.0	109	80-120	
Cadmium	46.4	10	"	50.0	92.8	80-120	
Cobalt	537	20	"	500	107	80-120	
Chromium	211	20	"	200	106	80-120	
Copper	265	20	"	250	106	80-120	
Molybdenum	544	20	"	500	109	80-120	
Nickel	532	20	"	500	106	80-120	
Silver	43.2	10	"	50.0	86.4	80-120	
Vanadium	532	20	"	500	106	80-120	
Zinc	515	20	"	500	103	80-120	

LCS Dup (CO02270-BSD1)				Prepared: 03/25/05		Analyzed: 03/28/05		
Antimony	553	50	µg/L	500	111	80-120	2.38	20
Barium	2170	20	"	2000	108	80-120	2.33	20
Beryllium	55.7	5.0	"	50.0	111	80-120	1.99	20
Cadmium	48.7	10	"	50.0	97.4	80-120	4.84	20
Cobalt	545	20	"	500	109	80-120	1.48	20
Chromium	219	20	"	200	110	80-120	3.72	20
Copper	272	20	"	250	109	80-120	2.61	20
Molybdenum	554	20	"	500	111	80-120	1.82	20
Nickel	534	20	"	500	107	80-120	0.375	20
Silver	44.2	10	"	50.0	88.4	80-120	2.29	20
Vanadium	543	20	"	500	109	80-120	2.05	20
Zinc	519	20	"	500	104	80-120	0.774	20

Matrix Spike (CO02270-MS1)				Source: COC0847-01		Prepared: 03/25/05		Analyzed: 03/28/05	
Antimony	560	50	µg/L	500	ND	112	75-125		
Barium	2210	20	"	2000	ND	110	75-125		
Beryllium	56.1	5.0	"	50.0	ND	112	75-125		
Cadmium	49.6	10	"	50.0	ND	99.2	75-125		

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CAM 17 Metals (Dissolved Metals) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02270 - EPA 3010A

Matrix Spike (CO02270-MS1)	Source: COC0847-01			Prepared: 03/25/05		Analyzed: 03/28/05				
Cobalt	551	20	µg/L	500	ND	110	75-125			
Chromium	218	20	"	200	ND	109	75-125			
Copper	273	20	"	250	ND	109	75-125			
Molybdenum	562	20	"	500	ND	112	75-125			
Nickel	544	20	"	500	ND	109	75-125			
Silver	43.8	10	"	50.0	ND	87.6	75-125			
Vanadium	547	20	"	500	ND	109	75-125			
Zinc	530	20	"	500	ND	106	75-125			

Matrix Spike Dup (CO02270-MSD1)	Source: COC0847-01			Prepared: 03/25/05		Analyzed: 03/28/05				
Antimony	555	50	µg/L	500	ND	111	75-125	0.897	25	
Barium	2170	20	"	2000	ND	108	75-125	1.83	25	
Beryllium	55.1	5.0	"	50.0	ND	110	75-125	1.80	25	
Cadmium	43.5	10	"	50.0	ND	87.0	75-125	13.1	25	
Cobalt	547	20	"	500	ND	109	75-125	0.729	25	
Chromium	214	20	"	200	ND	107	75-125	1.85	25	
Copper	268	20	"	250	ND	107	75-125	1.85	25	
Molybdenum	553	20	"	500	ND	111	75-125	1.61	25	
Nickel	540	20	"	500	ND	108	75-125	0.738	25	
Silver	42.2	10	"	50.0	ND	84.4	75-125	3.72	25	
Vanadium	537	20	"	500	ND	107	75-125	1.85	25	
Zinc	521	20	"	500	ND	104	75-125	1.71	25	

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Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO02213 - EPA 3510B GCNV										
Blank (CO02213-BLK1) Prepared & Analyzed: 03/24/05										
Diesel	ND	0.050	mg/L							
Motor Oil	ND	0.050	"							
LCS (CO02213-BS1) Prepared & Analyzed: 03/24/05										
Diesel	2.33	0.050	mg/L	2.50		93.2	65-135			
LCS Dup (CO02213-BS1) Prepared & Analyzed: 03/24/05										
Diesel	2.36	0.050	mg/L	2.50		94.4	65-135	1.28	30	
Matrix Spike (CO02213-MS1) Source: COC0733-04 Prepared & Analyzed: 03/24/05										
Diesel	1.91	0.050	mg/L	2.50	ND	76.4	46-137			
Matrix Spike Dup (CO02213-MS1) Source: COC0733-04 Prepared & Analyzed: 03/24/05										
Diesel	1.92	0.050	mg/L	2.50	ND	76.8	46-137	0.522	30	

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02265 - EPA 3510B GCMS

Blank (CO02265-BLK1)				Prepared: 03/25/05 Analyzed: 03/31/05						
Acenaphthene	ND	10	µg/L							
Acenaphthylene	ND	10	"							
Anthracene	ND	10	"							
Benzo (a) anthracene	ND	10	"							
Benzo (b) fluoranthene	ND	10	"							
Benzo (k) fluoranthene	ND	10	"							
Benzo (g,h,i) perylene	ND	10	"							
Benzo (a) pyrene	ND	10	"							
Benzyl alcohol	ND	10	"							
Bis(2-chloroethoxy)methane	ND	10	"							
Bis(2-chloroethyl)ether	ND	10	"							
Bis(2-chloroisopropyl)ether	ND	10	"							
Bis(2-ethylhexyl)phthalate	ND	10	"							
4-Bromophenyl phenyl ether	ND	10	"							
Butyl benzyl phthalate	ND	10	"							
4-Chloroaniline	ND	10	"							
2-Chloronaphthalene	ND	10	"							
4-Chlorophenyl phenyl ether	ND	10	"							
Chrysene	ND	10	"							
Dibenz (a,h) anthracene	ND	10	"							
Dibenzofuran	ND	10	"							
Di-n-butyl phthalate	ND	10	"							
1,2-Dichlorobenzene	ND	10	"							
1,3-Dichlorobenzene	ND	10	"							
1,4-Dichlorobenzene	ND	10	"							
3,3'-Dichlorobenzidine	ND	20	"							
Diethyl phthalate	ND	10	"							
Dimethyl phthalate	ND	10	"							
2,4-Dinitrotoluene (2,4-DNT)	ND	10	"							
2,6-Dinitrotoluene (2,6-DNT)	ND	10	"							
Di-n-octyl phthalate	ND	10	"							

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02265 - EPA 3510B GCMS

Blank (CO02265-BLK1)

Prepared: 03/25/05 Analyzed: 03/31/05

Fluoranthene	ND	10	µg/L							
Fluorene	ND	10	"							
Hexachlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	10	"							
Hexachloroethane	ND	10	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	10	"							
2-Methylnaphthalene	ND	10	"							
Naphthalene	ND	10	"							
2-Nitroaniline	ND	25	"							
3-Nitroaniline	ND	25	"							
4-Nitroaniline	ND	25	"							
Nitrobenzene (NB)	ND	10	"							
N-Nitrosodiphenylamine	ND	10	"							
N-Nitrosodi-n-propylamine	ND	10	"							
Phenanthrene	ND	10	"							
Pyrene	ND	10	"							
1,2,4-Trichlorobenzene	ND	10	"							
Benzoic acid	ND	25	"							
4-Chloro-3-methylphenol	ND	10	"							
2-Chlorophenol	ND	10	"							
2,4-Dichlorophenol	ND	10	"							
2,4-Dimethylphenol	ND	10	"							
4,6-Dinitro-2-methylphenol	ND	25	"							
2,4-Dinitrophenol	ND	25	"							
2-Methylphenol	ND	10	"							
3 & 4-Methylphenol	ND	10	"							
2-Nitrophenol	ND	10	"							
4-Nitrophenol	ND	25	"							
Pentachlorophenol	ND	25	"							

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02265 - EPA 3510B GCMS

Blank (CO02265-BLK1)										
						Prepared: 03/25/05 Analyzed: 03/31/05				
Phenol	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	"							
2,4,6-Trichlorophenol	ND	10	"							
<i>Surrogate: 2-Fluorophenol</i>	40.8		"	75.0		54.4	21-110			
<i>Surrogate: Phenol-d5</i>	31.3		"	75.0		41.7	10-110			
<i>Surrogate: Nitrobenzene-d5</i>	37.1		"	50.0		74.2	35-114			
<i>Surrogate: 2-Fluorobiphenyl</i>	37.1		"	50.0		74.2	43-116			
<i>Surrogate: 2,4,6-Tribromophenol</i>	62.9		"	75.0		83.9	10-123			
<i>Surrogate: Terphenyl-d14</i>	41.0		"	50.0		82.0	33-141			

LCS (CO02265-BS1)										
						Prepared: 03/25/05 Analyzed: 03/31/05				
Acenaphthene	33.3	10	µg/L	50.0		66.6	46-118			
1,4-Dichlorobenzene	32.1	10	"	50.0		64.2	36-117			
2,4-Dinitrotoluene (2,4-DNT)	40.7	10	"	50.0		81.4	24-116			
N-Nitrosodi-n-propylamine	40.9	10	"	50.0		81.8	41-126			
Pyrene	35.8	10	"	50.0		71.6	26-127			
1,2,4-Trichlorobenzene	36.1	10	"	50.0		72.2	39-118			
4-Chloro-3-methylphenol	54.1	10	"	75.0		72.1	23-117			
2-Chlorophenol	51.6	10	"	75.0		68.8	23-134			
4-Nitrophenol	33.5	25	"	75.0		44.7	10-108			
Pentachlorophenol	69.3	25	"	75.0		92.4	10-113			
Phenol	32.9	10	"	75.0		43.9	5-112			
<i>Surrogate: 2-Fluorophenol</i>	47.8		"	75.0		63.7	21-110			
<i>Surrogate: Phenol-d5</i>	38.9		"	75.0		51.9	10-110			
<i>Surrogate: Nitrobenzene-d5</i>	41.5		"	50.0		83.0	35-114			
<i>Surrogate: 2-Fluorobiphenyl</i>	40.8		"	50.0		81.6	43-116			
<i>Surrogate: 2,4,6-Tribromophenol</i>	70.4		"	75.0		93.9	10-123			
<i>Surrogate: Terphenyl-d14</i>	43.6		"	50.0		87.2	33-141			

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02265 - EPA 3510B GCMS

LCS Dup (CO02265-BSD1)

Prepared: 03/25/05 Analyzed: 03/31/05

Acenaphthene	33.0	10	µg/L	50.0	66.0	46-118	0.905	31		
1,4-Dichlorobenzene	32.0	10	"	50.0	64.0	36-117	0.312	28		
2,4-Dinitrotoluene (2,4-DNT)	41.0	10	"	50.0	82.0	24-116	0.734	38		
N-Nitrosodi-n-propylamine	40.7	10	"	50.0	81.4	41-126	0.490	38		
Pyrene	37.2	10	"	50.0	74.4	26-127	3.84	31		
1,2,4-Trichlorobenzene	36.2	10	"	50.0	72.4	39-118	0.277	28		
4-Chloro-3-methylphenol	53.9	10	"	75.0	71.9	23-117	0.370	42		
2-Chlorophenol	50.0	10	"	75.0	66.7	23-134	3.15	40		
4-Nitrophenol	35.5	25	"	75.0	47.3	10-108	5.80	45		
Pentachlorophenol	74.5	25	"	75.0	99.3	10-113	7.23	45		
Phenol	31.4	10	"	75.0	41.9	5-112	4.67	42		
<i>Surrogate: 2-Fluorophenol</i>	<i>43.1</i>		<i>"</i>	<i>75.0</i>	<i>57.5</i>	<i>21-110</i>				
<i>Surrogate: Phenol-d5</i>	<i>34.5</i>		<i>"</i>	<i>75.0</i>	<i>46.0</i>	<i>10-110</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>38.0</i>		<i>"</i>	<i>50.0</i>	<i>76.0</i>	<i>35-114</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>38.6</i>		<i>"</i>	<i>50.0</i>	<i>77.2</i>	<i>43-116</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>64.9</i>		<i>"</i>	<i>75.0</i>	<i>86.5</i>	<i>10-123</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>42.0</i>		<i>"</i>	<i>50.0</i>	<i>84.0</i>	<i>33-141</i>				

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TPH-Gasoline by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO02274 - EPA 5030 Water GC										
Blank (CO02274-BLK1)										
Prepared & Analyzed: 03/25/05										
Gasoline	ND	50	µg/L							
Surrogate: <i>o</i> -Chlorotoluene (Gas)	22.0		"	20.0		110	65-135			
LCS (CO02274-BS1)										
Prepared & Analyzed: 03/25/05										
Gasoline	547	50	µg/L	500		109	65-135			
Surrogate: <i>o</i> -Chlorotoluene (Gas)	21.7		"	20.0		108	65-135			
LCS Dup (CO02274-BSD1)										
Prepared & Analyzed: 03/25/05										
Gasoline	566	50	µg/L	500		113	65-135	3.41	30	
Surrogate: <i>o</i> -Chlorotoluene (Gas)	22.0		"	20.0		110	65-135			
Matrix Spike (CO02274-MS1)										
Prepared & Analyzed: 03/25/05										
Gasoline	551	50	µg/L	500		110	68-132			
Surrogate: <i>o</i> -Chlorotoluene (Gas)	22.3		"	20.0		112	65-135			
Matrix Spike Dup (CO02274-MSD1)										
Prepared & Analyzed: 03/25/05										
Gasoline	543	50	µg/L	500		109	68-132	1.46	32	
Surrogate: <i>o</i> -Chlorotoluene (Gas)	22.1		"	20.0		110	65-135			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02217 - EPA 5030 Water MS

Blank (CO02217-BLK1)

Prepared & Analyzed: 03/24/05

Acetone	ND	10	µg/L							
Benzene	ND	0.50	"							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
2-Butanone	ND	10	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	1.0	"							
o-Chlorotoluene	ND	0.50	"							
p-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane (Freon 12)	ND	1.0	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

04/04/05 11:52

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02217 - EPA 5030 Water MS

Blank (CO02217-BLK1)

Prepared & Analyzed: 03/24/05

1,2-Dichloropropane	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	"
2,2-Dichloropropane	ND	0.50	"
1,1-Dichloropropene	ND	0.50	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Ethylbenzene	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
2-Hexanone	ND	10	"
Isopropylbenzene	ND	0.50	"
p-Isopropyltoluene	ND	0.50	"
Methylene chloride	ND	0.50	"
4-Methyl-2-pentanone	ND	10	"
Methyl tert-butyl ether	ND	0.50	"
Naphthalene	ND	0.50	"
n-Propylbenzene	ND	0.50	"
Styrene	ND	0.50	"
1,1,1,2-Tetrachloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
Tetrachloroethene	ND	0.50	"
Toluene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,1,1-Trichloroethane	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
Trichloroethene	ND	0.50	"
Trichlorofluoromethane	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

04/04/05 11:52

ENSR - Sacramento 10411 Old Placerville Rd., Suite 210 Sacramento, CA 95827-2508	Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa Project Number: 06940-362-100 Project Manager: David Peacock	CLS Work Order #: COC0810 COC #: 1, 2
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO02217 - EPA 5030 Water MS

Blank (CO02217-BLK1)

Prepared & Analyzed: 03/24/05

1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl chloride	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	11.8		"	10.0		118	66-135			
<i>Surrogate: Toluene-d8</i>	10.1		"	10.0		101	72-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	10.7		"	10.0		107	73-125			

LCS (CO02217-BS1)

Prepared & Analyzed: 03/24/05

Benzene	19.2	0.50	µg/L	20.0		96.0	60-135			
Chlorobenzene	16.3	0.50	"	20.0		81.5	60-133			
1,1-Dichloroethene	18.9	0.50	"	20.0		94.5	42-150			
Toluene	19.4	0.50	"	20.0		97.0	60-137			
Trichloroethene	19.2	0.50	"	20.0		96.0	62-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.6		"	10.0		106	66-135			
<i>Surrogate: Toluene-d8</i>	10.7		"	10.0		107	72-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	9.13		"	10.0		91.3	73-125			

LCS Dup (CO02217-BSD1)

Prepared & Analyzed: 03/24/05

Benzene	21.6	0.50	µg/L	20.0		108	60-135	11.8	25	
Chlorobenzene	18.4	0.50	"	20.0		92.0	60-133	12.1	25	
1,1-Dichloroethene	21.1	0.50	"	20.0		106	42-150	11.0	25	
Toluene	21.7	0.50	"	20.0		108	60-137	11.2	25	
Trichloroethene	22.0	0.50	"	20.0		110	62-140	13.6	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.4		"	10.0		104	66-135			
<i>Surrogate: Toluene-d8</i>	11.1		"	10.0		111	72-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	9.65		"	10.0		96.5	73-125			

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

04/04/05 11:52

ENSR - Sacramento
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508

Project: Fmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa
Project Number: 06940-362-100
Project Manager: David Peacock
CLS Work Order #: COC0810
COC #: 1, 2

Notes and Definitions

- GC-25 Weathered gasoline.
- DSL-1 Although sample contains compounds in the retention time range associated with diesel, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on diesel.
- C-03C Per customer request, the sample extract has undergone silica-gel clean-up, EPA Method 3630, which is specific to polar compound contamination.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742

Attn: Mark Smith
Phone: (916) 638-7301
Fax: (916) 638-4510
Date Received 03/24/05

Job#: Frmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa

GC/MSD by Direct Injection
EPA Method SW8260B-DI

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID: MW-2 Lab ID: CLS05032543-01A	Ethanol	19	5.0 µg/L	03/23/05 03/27/05
Client ID: MW-3 Lab ID: CLS05032543-02A	Ethanol	18	5.0 µg/L	03/23/05 03/27/05
Client ID: MW-11 Lab ID: CLS05032543-03A	Ethanol	12	5.0 µg/L	03/23/05 03/27/05

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

3/30/05

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
30-Mar-05

QC Summary Report

Work Order:
05032543

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B-DI**

File ID: C:\HPCHEM\MS11\DATA\050327\05032703.D

Batch ID: **11940**

Analysis Date: **03/27/2005 18:21**

Sample ID: **MBLK-11940**

Units : **mg/L**

Run ID: **MSD_11_050327A**

Prep Date: **03/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Ethanol	ND	0.005								
Surr: Hexafluoro-2-propanol	0.501		0.5		100	63	137			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B-DI**

File ID: C:\HPCHEM\MS11\DATA\050327\05032704.D

Batch ID: **11940**

Analysis Date: **03/27/2005 18:42**

Sample ID: **LCS-11940**

Units : **mg/L**

Run ID: **MSD_11_050327A**

Prep Date: **03/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Ethanol	0.259	0.005	0.25		104	51	144			
Surr: Hexafluoro-2-propanol	0.488		0.5		98	63	137			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B-DI**

File ID: C:\HPCHEM\MS11\DATA\050327\05032706.D

Batch ID: **11940**

Analysis Date: **03/27/2005 19:24**

Sample ID: **05032543-02AMS**

Units : **mg/L**

Run ID: **MSD_11_050327A**

Prep Date: **03/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Ethanol	0.313	0.005	0.25	0.01833	118	50	149			
Surr: Hexafluoro-2-propanol	0.498		0.5		99.6	63	137			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B-DI**

File ID: C:\HPCHEM\MS11\DATA\050327\05032707.D

Batch ID: **11940**

Analysis Date: **03/27/2005 19:45**

Sample ID: **05032543-02AMSD**

Units : **mg/L**

Run ID: **MSD_11_050327A**

Prep Date: **03/27/2005**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Ethanol	0.322	0.005	0.25	0.01833	121	50	149	0.3135	2.6(15)	
Surr: Hexafluoro-2-propanol	0.496		0.5		99	63	137			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**SUBCONTRACT ORDER
COC0810**

RUSH

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Mark Smith
Project: Frmr. Unocal 1975, 1051 Spencer Ave., Santa Rosa

RECEIVING LABORATORY:

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431
Phone :7753551044
Fax: 7753550406

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
8260 Ethanol and Methanol SUB	5	03/30/05 12:0	04/06/05 13:15	COC0810-01	03/23/05 13:15	03/23/05 18:20	Water

Client sample ID: MW-2

Laboratory sample ID: COC0810-01

Please use client sample ID on all reports

Sampler:

Report Ethanol Only

Containers Supplied:

Voa Vial - HCl (F) Voa Vial - HCl (G)

8260 Ethanol and Methanol SUB	5	03/30/05 12:0	04/06/05 14:00	COC0810-02	03/23/05 14:00	03/23/05 18:20	Water
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Client sample ID: MW-3

Laboratory sample ID: COC0810-02

Please use client sample ID on all reports

Sampler:

Report Ethanol Only

Containers Supplied:

Voa Vial - HCl (F) Voa Vial - HCl (G)

8260 Ethanol and Methanol SUB	5	03/30/05 12:0	04/06/05 14:45	COC0810-03	03/23/05 14:45	03/23/05 18:20	Water
-------------------------------	---	---------------	----------------	------------	----------------	----------------	-------

Client sample ID: MW-11

Laboratory sample ID: COC0810-03

Please use client sample ID on all reports

Sampler:

Report Ethanol Only

Containers Supplied:

Voa Vial - HCl (E) Voa Vial - HCl (F)

	<u>3/24/05</u>		<u>3/24/05</u>
Relinquished By	Date	Received By	Date

			<u>3/23/05 1:23</u>
Relinquished By	Date	Received By	Date

	
Shipped By	Airbill Number

Billing Information :

CLS LABS
3249 FITZGERALD ROAD

RANCHO CORDOVA, CA 95742

Client:

CLS Labs
3249 Fitzgerald Road

Rancho Cordova, CA 95742

Report Attention : Mark Smith

CC Report :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

Mark Smith

TEL : (916) 638-7301

FAX : (916) 638-4510

EEmail marks@californialab.com

Job : Frm. Unocal 1975, 1051 Spencer Ave., Santa Rosa

PO : Client's COC # : none

CA

Page:

1 of 1

WorkOrder : CLS05032543

Report Due By : 5:00 PM On : 30-Mar-05

EDD Required : Yes

PDF Required : No

Sampled by : Client

Cooler Temp : 4 °C

25-Mar-05

QC Level : 1 = Final Rpt Only

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles				ALCOHOL_ W	Requested Tests	Sample Remarks
				ORG	SUB	TAT	PWS #			
CLS05032543-01A	MW-2	AQ	03/23/05 13:15	2	0	4		Low Level EtOH		
CLS05032543-02A	MW-3	AQ	03/23/05 14:00	2	0	4		Low Level EtOH		
CLS05032543-03A	MW-11	AQ	03/23/05 14:45	2	0	4		Low Level EtOH		

Comments: Security seals. Frozen ice. :

Received by: *Patricia Edrosa* Signature: *Patricia Edrosa* Print Name: Patricia Edrosa Company: Alpha Analytical, Inc. Date/Time: 3/23/05 1:23

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

ATTACHMENT D
HISTORICAL GROUNDWATER ELEVATION
AND ANALYTICAL DATA

Historical Well Monitoring Data
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL NUMBER	DATE	TOP OF CASING ELEVATION <i>(Feet, MSL)</i>	DEPTH TO WATER <i>(Feet, MSL)</i>	PRODUCT THICKNESS <i>(Feet, MSL)</i>	GROUNDWATER ELEVATION <i>(Feet, MSL)</i>
MW1	12/23/91	169.64 (a)	14.40	--	155.24
	01/16/92		12.46	--	157.18
	02/20/92		5.97	--	163.67
	03/11/92		6.50	--	163.14
	04/17/92		6.54	--	163.10
	05/14/92		8.58	--	161.06
	06/18/92		10.49	--	159.15
	07/15/92		11.62	--	158.02
	08/06/92		12.64	--	157.00
	09/04/92		13.68	--	155.96
	10/28/92		14.40	--	155.24
	11/12/92		13.68	--	155.96
	12/02/92		14.22	--	155.42
	01/21/93		1.92	--	167.72
	02/25/93		1.84	--	167.80
	03/25/93		3.24	--	166.40
	04/15/93		0.93	--	168.71
	05/04/93		6.82	--	162.82
	06/15/93		9.05	--	160.59
	07/28/93		NA	NA	NA
	08/17/93		12.19	--	157.45
	09/16/93		13.36	--	156.28
	10/18/93		12.54	--	157.10
	10/19/93		12.62	--	157.02
	12/14/93		9.36	--	160.28
	01/07/94		10.98	--	158.66
	02/25/94		6.76	--	162.88
	03/14/94		8.19	--	161.45
	04/25/94		9.78	--	159.86
	05/17/94		10.58	--	159.06
	06/13/94		11.72	--	157.92
	07/06/94		12.58	--	157.06
	08/11/94		13.58	--	156.06
	09/29/94		14.76	--	154.88
	11/02/94		15.04	--	154.60
	11/29/94		11.43	--	158.21
12/28/94		10.41	--	159.23	
01/23/95		1.10	--	168.54	
02/01/95		2.49	--	167.15	
03/02/95		4.24	--	165.40	
04/21/95		4.32	--	165.32	
05/17/95		5.40	--	164.24	
06/07/95		6.98	--	162.66	
07/31/95		9.94	--	159.70	
08/29/95		11.02	--	158.62	
09/26/95		12.40	--	157.24	

Historical Well Monitoring Data
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL NUMBER	DATE	TOP OF CASING ELEVATION <i>(Feet, MSL)</i>	DEPTH TO WATER <i>(Feet, MSL)</i>	PRODUCT THICKNESS <i>(Feet, MSL)</i>	GROUNDWATER ELEVATION <i>(Feet, MSL)</i>	
MW1 (cont.)	10/31/95		13.82	--	155.82	
	11/21/95		13.71	--	155.93	
	12/21/95		10.60	--	159.04	
	01/31/96		3.36	--	166.28	
	03/27/96		4.74	--	164.90	
	5/9/1996		7.10	Sheen	162.54	
	8/19/1996		11.70	--	157.94	
	12/12/1996		8.62	--	161.02	
	3/4/1997		6.00	--	163.64	
	6/27/1997		11.45	--	158.19	
	9/29/1997		13.88	--	155.76	
	12/17/1997		8.28	--	161.36	
	3/16/1998		3.12	--	166.52	
	6/29/1998		8.37	--	161.27	
	9/17/1998		11.86	--	157.78	
	3/17/1999		3.54	--	166.10	
	9/20/1999		13.09	--	156.55	
	3/28/2000		4.80	--	164.84	
	10/12/2000		14.63	--	155.01	
	3/27/2001		7.98	--	161.66	
	9/27/2001		14.50	--	155.14	
	3/23/2002		6.40	--	163.24	
	9/26/2002		Well not measured			
	3/31/2003			6.69	--	162.95
	9/29/2003			12.41	--	157.23
	3/11/2004			14.35		155.29
MW2	12/23/91	171.08 (a)	15.85	--	155.23	
	01/16/92		14.01	Sheen	157.07	
	02/20/92		8.40	Sheen	162.68	
	03/11/92		8.29	Sheen	162.79	
	04/17/92		7.94	Sheen	163.14	
	05/14/92		9.91	--	161.17	
	06/18/92		11.97	Sheen	159.11	
	07/15/92		NA	NA	NA	
	08/06/92		14.13	Sheen	156.95	
	09/04/92		14.84	Sheen	156.24	
	10/28/92		15.73	Sheen	155.35	
	11/12/92		15.25	Sheen	155.83	
	12/02/92		15.66	Sheen	155.42	
	01/21/93		3.26	--	167.82	
	02/25/93		2.81	--	168.27	
	03/25/93		4.60	--	166.48	
	04/15/93		6.96	--	164.12	
	05/04/93		7.85	--	163.23	
	06/15/93		10.33	--	160.75	
	07/28/93		12.86	--	158.22	
	08/17/93		13.57	--	157.51	
	09/16/93		14.96	Sheen	156.12	
	10/18/93		13.92	Sheen	157.16	
	10/19/93		14.05	--	157.03	
	12/14/93		10.90	Sheen	160.18	
	01/07/94		12.29	--	158.79	
02/25/94		8.57	Sheen	162.51		
03/14/94		9.56	--	161.52		
04/25/94		9.78	--	161.30		

Historical Well Monitoring Data
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL NUMBER	DATE	TOP OF CASING ELEVATION <i>(Feet, MSL)</i>	DEPTH TO WATER <i>(Feet, MSL)</i>	PRODUCT THICKNESS <i>(Feet, MSL)</i>	GROUNDWATER ELEVATION <i>(Feet, MSL)</i>	
MW2 (cont.)	05/17/94		12.03	Sheen	159.05	
	06/13/94		13.17	Sheen	157.91	
	07/06/94		NA	NA	NA	
	08/11/94		NA	NA	NA	
	09/29/94			15.98		155.10
	11/02/94			16.27	--	154.81
	11/29/94			12.89	Sheen	158.19
	12/28/94			11.74	--	159.34
	01/23/95			1.96	--	169.12
	02/01/95			NA	--	NA
	03/02/95			5.06	--	166.02
	04/21/95			5.32	--	165.76
	05/18/95			6.48	--	164.60
	06/07/95			7.62	--	163.46
	07/31/95			10.77	--	160.31
	08/29/95			11.85	--	159.23
	09/26/95			13.95	--	157.13
	10/31/95			15.50	--	155.58
	11/21/95			15.55	--	155.53
	12/21/95			12.67	--	158.41
	01/31/96			5.15	--	165.93
	03/27/96			5.73	--	165.35
	5/9/1996			7.64	--	163.44
	8/16/1996			12.84	--	158.24
	12/13/1996			10.51	--	160.57
	3/5/1997			6.62	Odor	164.46
	6/27/1997			12.62	Odor	158.46
	9/29/1997			14.92	Sheen & Odor	156.16
	12/17/1997			10.74	Odor	160.34
	3/16/1998			4.23	--	166.85
	6/29/1998			9.47	--	161.61
	9/17/1998			13.01	Odor	158.07
	3/17/1999			4.70	Odor	166.38
	9/20/1999			14.42	Sheen & Odor	156.66
	3/28/2000			5.81	Odor	165.27
	10/12/2000			14.77	Odor	156.31
	3/27/2001			9.17	Odor	161.91
9/27/2001			15.85	Odor	155.23	
3/23/2002			7.58	--	163.50	
9/26/2002			15.57	--	155.51	
3/31/2003			7.80	Odor	163.28	
9/29/2003			12.98	--	158.10	
3/11/2004			15.75		155.33	
MW3	12/23/91	170.21 (a)	15.75	--	154.46	
	01/16/92		14.13	Sheen	156.08	
	02/20/92		NA	NA	NA	
	03/11/92		8.00	--	162.21	
	04/17/92		7.94	Sheen	162.27	
	05/14/92		9.94	--	160.27	
	06/18/92		11.93	--	158.28	
	07/15/92		13.16	--	157.05	
	08/06/92		14.11	--	156.10	
	09/04/92		15.11	--	155.10	

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WELL NUMBER	DATE	TOP OF CASING ELEVATION <i>(Feet, MSL)</i>	DEPTH TO WATER <i>(Feet, MSL)</i>	PRODUCT THICKNESS <i>(Feet, MSL)</i>	GROUNDWATER ELEVATION <i>(Feet, MSL)</i>
MW3 (cont.)	10/28/92		15.89	--	154.32
	11/12/92		15.12	--	155.09
	12/02/92		15.44	Sheen	154.77
	01/21/93		3.63	--	166.58
	02/25/93		2.04	--	168.17
	03/25/93		4.80	--	165.41
	04/15/93		7.11	--	163.10
	05/04/93		8.24	--	161.97
	06/15/93		10.43	--	159.78
	07/28/93		12.83	--	157.38
	08/17/93		13.68	--	156.53
	09/16/93		14.79	--	155.42
	10/18/93		14.31	--	155.90
	10/19/93		14.31	--	155.90
	12/14/93		11.48	--	158.73
	01/07/94		12.42	--	157.79
	02/25/94		8.53	--	161.68
	03/14/94		9.67	--	160.54
	04/25/94		11.11	--	159.10
	05/17/94		12.05	--	158.16
	06/13/94		13.21	--	157.00
	07/06/94		14.08	--	156.13
	08/11/94		15.05	--	155.16
	09/29/94		16.04	--	154.17
	11/02/94		16.25	--	153.96
	11/29/94		13.08	--	157.13
	12/28/94		11.82	--	158.39
	01/23/95		2.24	--	167.97
	02/01/95		2.57	--	167.64
	03/03/95		5.10	--	165.11
	04/21/95		5.36	--	164.85
	05/18/95		6.66	--	163.55
	06/07/95		8.41	--	161.80
	07/31/95		11.48	--	158.73
	08/29/95		12.82	--	157.39
	09/26/95		14.06	--	156.15
	10/31/95		15.56	--	154.65
	11/21/95		15.45	--	154.76
	12/21/95		11.71	--	158.50
	01/31/96		5.02	--	165.19
	03/27/96		5.72	--	164.49
	5/9/1996		8.21	--	162.00
	8/16/1996		13.08	--	157.13
	12/12/1996		10.95	--	159.26
	3/5/1997		6.84	--	163.37
	6/27/1997		12.83	Sheen & Odor	157.38
	9/29/1997		15.21	Odor	155.00
	12/17/1997		10.02	Odor	160.19
	3/16/1998		4.37	--	165.84
	6/29/1998		9.57	Odor	160.64
	9/17/1998		13.25	Odor	156.96
	3/17/1999		4.83	--	165.38
	9/20/1999		13.49	--	156.72

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MW3 (cont.)	3/28/2000		5.81	--	164.40
	10/12/2000		14.98	Odor	155.23
	3/27/2001		9.28	Odor	160.93
	9/27/2001		15.83	Odor	154.38
	3/23/2002		7.51	--	162.70
	9/26/2002		15.55	--	154.66
	3/31/2003		7.92	--	162.29
	9/29/2003		14.41	--	155.80
	3/11/2004		15.40		154.81
MW4	07/06/94	169.99 (b)	13.51	--	156.48
	08/11/94		14.55	--	155.44
	09/29/94		15.64		154.35
	11/02/94		15.97	--	154.02
	11/29/94		12.40	--	157.59
	12/28/94		19.66	--	150.33
	01/23/95		1.52	--	168.47
	02/01/95		1.81	--	168.18
	03/03/95		4.69	--	165.30
	04/21/95		4.82	--	165.17
	05/18/95		6.10	--	163.89
	06/07/95		7.61	--	162.38
	07/31/95		10.82	--	159.17
	08/29/95		12.08	--	157.91
	09/26/95		13.42	--	156.57
	10/31/95		14.87	--	155.12
	11/20/95		15.00	--	154.99
	12/21/95		11.04	--	158.95
	01/31/96		4.53	--	165.46
	03/27/96		5.08	--	164.91
	5/9/1996		7.54	--	162.45
	8/19/1996		12.48	--	157.51
	12/12/1996		9.90	--	160.09
	3/4/1997		6.41	--	163.58
	6/27/1997		12.61	--	157.38
	9/29/1997		14.75	--	155.24
	12/17/1997		9.14	--	160.85
	3/16/1998		3.57	--	166.42
	6/29/1998		8.90	--	161.09
	9/17/1998		12.65	--	157.34
	3/17/1999		4.07	--	165.92
	9/20/1999		13.96	--	156.03
3/28/2000		5.24	--	164.75	
10/12/2000		14.52	--	155.47	
3/27/2001		8.50	--	161.49	
9/27/2001		15.52	--	154.47	
3/23/2002		7.03	--	162.96	
9/26/2002			Well not measured		
3/31/2003			7.26	--	162.73
9/29/2003			13.63		156.36
3/11/2004			15.30		154.69

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MW5	07/06/94	170.17 (b)	13.67	--	156.50
	08/11/94		14.70	--	155.47
	09/29/94		15.25	--	154.92
	11/02/94		15.67	--	154.50
	11/29/94		12.45	--	157.72
	12/28/94		11.21	--	158.96
	01/23/95		0.97	--	169.20
	02/01/95		1.45	--	168.72
	03/03/95		4.48	--	165.69
	04/21/95		4.60	--	165.57
	05/18/95		5.90	--	164.27
	06/07/95		7.52	--	162.65
	07/31/95		10.77	--	159.40
	08/29/95		NA	NA	NA
	09/26/95		13.47	--	156.70
	10/31/95		15.22	--	154.95
	11/20/95		15.28	--	154.89
	12/21/95		11.09	--	159.08
	01/31/96		4.57	--	165.60
	03/27/96		5.79	--	164.38
	5/10/1996		7.38	--	162.79
	8/10/1996		12.46	--	157.71
	12/12/1996		10.35	--	159.82
	3/4/1997		7.86	--	162.31
	6/27/1997		12.34	--	157.83
	9/29/1997		14.62	--	155.55
	12/17/1997		9.31	--	160.86
	3/16/1998		3.40	--	166.77
	6/29/1998		8.76	--	161.41
	9/17/1998		12.68	--	157.49
	3/17/1999		3.88	--	166.29
	9/20/1999		14.03	--	156.14
	3/28/2000		4.96	--	165.21
10/12/2000	14.46	--	155.71		
3/27/2001	8.36	--	161.81		
9/27/2001	15.56	--	154.61		
3/23/2002	6.88	--	163.29		
9/26/2002	Well not measured				
3/31/2003	7.15	--	163.02		
9/29/2003	NA				
3/11/2004	15.30				
MW6	7/06/94	171.35 (b)	13.67	--	157.68
	08/11/94		16.44	--	154.91
	09/29/94		17.25	--	154.10
	11/02/94		17.43	--	153.92
	11/29/94		14.26	--	157.09
	12/28/94		13.40	--	157.95
	01/23/95		3.45	--	167.90
	02/01/95		3.82	--	167.53
	03/03/95		6.06	--	165.29
	04/21/95		6.30	--	165.05
	05/18/95		7.70	--	163.65
	06/07/95		9.39	--	161.96

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MW6 (cont.)	07/31/95		12.61	--	158.74
	08/29/95		13.90	--	157.45
	09/26/95		15.31	--	156.04
	10/31/95		16.83	--	154.52
	11/20/95		16.85	--	154.50
	12/21/95		12.91	--	158.44
	01/31/96		6.99	--	164.36
	03/27/96		6.55	--	164.80
	5/10/1996		9.22	--	162.13
	8/19/1996		14.20	--	157.15
	12/12/1996		12.30	--	159.05
	3/4/1997		5.79	--	165.56
	6/27/1997		13.46	--	157.89
	9/29/1997		16.46	--	154.89
	12/17/1997		11.24	--	160.11
	3/16/1998		5.81	--	165.54
	6/29/1998		10.61	--	160.74
	9/17/1998		14.44	--	156.91
	3/17/1999		5.97	--	165.38
	9/20/1999		15.81	--	155.54
	3/28/2000		6.76	--	164.59
	10/12/2000		16.21	--	155.14
	3/27/2001		10.28	--	161.07
	9/27/2001		17.20	--	154.15
	3/23/2002		8.10	--	163.25
	9/26/2002		16.92	--	154.43
3/31/2003		9.10	--	162.25	
9/29/2003		NA			
3/11/2004			17.00		
MW7	07/06/94	171.16 (b)	15.58	--	155.58
	08/11/94		16.60	--	154.56
	09/29/94		17.45	--	153.71
	11/02/94		17.61	--	153.55
	11/29/94		14.70	--	156.46
	12/28/94		13.40	--	157.76
	01/23/95		4.93	--	166.23
	02/01/95		3.96	--	167.20
	03/03/95		6.71	--	164.45
	04/21/95		6.66	--	164.50
	05/17/95		7.98	--	163.18
	06/07/95		9.90	--	161.26
	07/31/95		13.09	--	158.07
	08/29/95		14.37	--	156.79
	09/26/95		15.49	--	155.67
	10/31/95		16.88	--	154.28
	11/20/95		16.83	--	154.33
	12/21/95		13.22	--	157.94
	01/31/96		7.66	--	163.50
	03/27/96		6.98	--	164.18
	5/10/1996		9.62	--	161.54
8/19/1996		14.40	--	156.76	
12/12/1996		12.96	--	158.20	
3/4/1997		8.31	--	162.85	

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MW7 (cont.)	6/27/1997		13.94	--	157.22
	9/29/1997		16.58	--	154.58
	12/17/1997		11.56	--	159.60
	3/16/1998		5.92	--	165.24
	6/29/1998		10.99	--	160.17
	9/17/1998		14.60	--	156.56
	3/17/1999		6.32	--	164.84
	9/20/1999		16.00	--	155.16
	3/28/2000		7.10	--	164.06
	10/12/2000		16.35	--	154.81
	3/27/2001		10.70	--	160.46
	9/27/2001		17.30	--	153.86
	3/23/2002		9.15	--	162.01
	9/26/2002		17.12	--	154.04
	3/31/2003		9.55	--	161.61
	9/29/2003		16.03		155.13
	3/11/2004			17.00	
MW8	07/06/94	170.75 (b)	14.86	--	155.89
	08/11/94		15.84	--	154.91
	09/29/94		16.68	--	154.07
	11/02/94		16.88	--	153.87
	11/29/94		14.02	--	156.73
	12/28/94		12.72	--	158.03
	01/23/95		3.57	--	167.18
	02/01/95		3.62	--	167.13
	03/03/95		6.14	--	164.61
	04/21/95		6.12	--	164.63
	05/17/95		7.43	--	163.32
	06/07/95		9.30	--	161.45
	07/31/95		12.42	--	158.33
	08/29/95		13.70	--	157.05
	09/26/95		14.77	--	155.98
	10/31/95		16.25	--	154.50
	11/21/95		16.02	--	154.73
	12/21/1995		12.54	--	158.21
	01/31/96		7.02	--	163.73
	03/27/96		6.35	--	164.40
	5/10/1996		9.08	--	161.67
	8/19/1996		13.76	--	156.99
	12/12/1996		12.29	--	158.46
	3/4/1997		7.76	--	162.99
	6/27/1997		13.42	--	157.33
	9/27/1997		15.82	--	154.93
	12/17/1997		10.96	--	159.79
	3/16/1998		5.29	--	165.46
	6/29/1998		10.36	--	160.39
	9/17/1998		13.88	--	156.87
	3/17/1999		5.72	--	165.03
	9/20/1999		15.82	--	154.93
3/28/2000		6.54	--	164.21	
10/12/2000		15.61	--	155.14	
3/27/2001		10.11	--	160.64	
9/27/2001			16.49	--	154.26

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MW8 (cont.)	3/23/2002		8.54	--	162.21
	9/26/2002		16.34	--	154.41
	3/31/2003		8.98	--	161.77
	9/29/2003		15.41	--	155.34
	3/11/2004		16.25		
MW9	07/06/94	170.46 (b)	14.45	--	156.01
	08/11/94		15.44	--	155.02
	09/29/94		16.25	--	154.21
	11/02/94		16.44	--	154.02
	11/29/94		13.53	--	156.93
	12/28/94		12.29	--	158.17
	01/23/95		2.72	--	167.74
	02/01/95		2.88	--	167.58
	03/03/95		5.60	--	164.86
	04/21/95		5.62	--	164.84
	05/17/95		6.91	--	163.55
	06/07/95		9.81	--	160.65
	07/31/95		11.93	--	158.53
	08/29/95		13.22	--	157.24
	09/26/95		14.39	--	156.07
	10/31/95		15.74	--	154.72
	11/21/95		15.74	--	154.72
	12/21/95		12.08	--	158.38
	01/31/96		6.31	--	164.15
	03/27/96		5.86	--	164.60
	5/10/1996		8.56	--	161.90
	8/19/1996		13.39	--	157.07
	12/12/1996		11.76	--	158.70
	3/4/1997		7.26	--	163.20
	6/27/1997		13.19	--	157.27
	9/29/1997		15.46	--	155.00
	12/17/1997		10.46	--	160.00
	3/16/1998		4.82	--	165.64
	6/29/1998		9.89	--	160.57
	9/17/1998		13.56	--	156.90
	3/17/1999		5.20	--	165.26
	9/20/1999		14.84	--	155.62
3/28/2000		6.05	--	164.41	
10/12/2000		15.24	--	155.22	
3/27/2001		9.58	--	160.88	
9/27/2001		16.14	--	154.32	
3/23/2002		8.02	--	162.44	
9/26/2002		15.91	--	154.55	
3/31/2003		8.38	--	162.08	
9/29/2003		14.85	--	155.61	
3/11/2004		15.85			
MW10	07/06/94	171.89 (b)	15.47	--	156.42
	08/11/94		16.51	--	155.38
	09/29/94		17.35	--	154.54
	11/02/94		17.56	--	154.33
	11/29/94		14.36	--	157.53
	12/28/94		13.10	--	158.79
	01/23/95		3.32	--	168.57

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MW10 (cont.)	02/01/95		3.54	--	168.35
	03/02/95		5.78	--	166.11
	04/21/95		6.52	--	165.37
	05/17/95		7.92	--	163.97
	06/07/95		9.72	--	162.17
	07/31/95		12.75	--	159.14
	08/29/95		NA	NA	NA
	09/26/95		15.38	--	156.51
	10/31/95		17.89	--	154.00
	11/20/95		16.88	--	155.01
	12/21/95		17.99	--	153.90
	01/31/96		7.01	--	164.88
	03/27/96		6.88	--	165.01
	5/10/1996		9.31	--	162.58
	8/16/1996		14.28	--	157.61
	12/12/1996		12.30	--	159.59
	3/5/1997		8.18	--	163.71
	6/27/1997		14.11	--	157.78
	9/29/1997		16.50	--	155.39
	12/17/1997		NA	--	NA
	3/16/1998		5.66	--	166.23
	6/29/1998		10.81	--	161.08
	9/17/1998		14.54	--	157.35
	3/17/1999		6.09	--	165.80
	9/20/1999		15.86	--	156.03
	3/28/2000		NA	--	NA
	10/12/2000		16.28	--	155.61
	3/27/2001		10.58	--	161.31
	9/27/2001		17.32	--	154.57
	3/23/2002		8.96	--	162.93
	9/26/2002		16.99	--	154.90
	3/31/2003		9.26	--	162.63
	9/29/2003		15.81	--	156.08
3/11/2004			17.00		
MW11	07/06/94	170.43 (b)	13.36	Sheen	157.07
	08/11/94		14.34		156.09
	09/29/94		15.48		154.95
	11/01/94		15.77	--	154.66
	11/29/94		12.19	Sheen	158.24
	12/28/94		11.14	--	159.29
	01/23/95		1.55	--	168.88
	02/01/95		3.96	--	166.47
	03/02/95		4.90	--	165.53
	04/21/95		4.96	--	165.47
	05/17/95		6.00	Sheen	164.43
	06/07/95		7.48	--	162.95
	07/31/95		10.57	Sheen	159.86
	08/29/95		11.72	--	158.71
	09/26/95		13.28	Sheen	157.15
	10/31/95		14.78	--	155.65
	11/20/95		14.79	Sheen	155.64
	12/21/95		10.93	--	159.50
01/31/96		4.30	--	166.13	
03/27/96			5.35	Sheen	165.08

Historical Well Monitoring Data
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL NUMBER	DATE	TOP OF CASING ELEVATION <i>(Feet, MSL)</i>	DEPTH TO WATER <i>(Feet, MSL)</i>	PRODUCT THICKNESS <i>(Feet, MSL)</i>	GROUNDWATER ELEVATION <i>(Feet, MSL)</i>
MW11 (cont.)	5/10/1996		7.66	Sheen	162.77
	8/16/1996		12.54	--	157.89
	12/12/1996		9.60	--	160.83
	3/5/1997		6.59	Sheen & Odor	163.84
	6/27/1997		12.41	Sheen & Odor	158.02
	9/29/1997		14.60	--	155.83
	12/17/1997		9.04	Sheen & Odor	161.39
	3/17/1998		3.91	--	166.52
	6/29/1998		9.00	Sheen	161.43
	9/17/1998		12.55	Sheen	157.88
	3/17/1999		4.14	Sheen & Odor	166.29
	9/20/1999		13.85	Sheen	156.58
	3/28/2000		5.37	Sheen	165.06
	10/12/2000		13.36	Sheen	157.07
	3/27/2001		8.63	Sheen	161.80
	9/27/2001		15.32	--	155.11
	3/23/2002		7.04	--	163.39
	9/26/2002		15.07	--	155.36
	3/31/2003		7.22	Sheen	163.21
	9/29/2003		13.04	--	157.39
3/11/2004		15.15		155.28	
MW12	07/06/94	168.84 (b)	13.95	--	154.89
	08/11/94		NA	NA	NA
	09/29/94		15.78		153.06
	11/02/94		15.94	--	152.90
	11/29/94		13.09	--	155.75
	12/28/94		11.98	--	156.86
	01/23/95		2.65	--	166.19
	02/01/95		3.96	--	164.88
	03/03/95		5.12	--	163.72
	04/21/95		5.51	--	163.33
	05/17/95		6.96	--	161.88
	06/07/95		8.78	--	160.06
	07/31/95		11.73	--	157.11
	08/29/95		NA	NA	NA
	09/26/95		13.85	--	154.99
	10/31/95		14.83	--	154.01
	11/21/95		14.76	--	154.08
	12/21/95		NA	NA	NA
	01/31/96		5.99	--	162.85
	03/27/96		5.78	--	163.06
	5/10/1996		8.61	--	160.23
	8/19/1996		12.99	--	155.85
	12/12/1996		11.20	--	157.64
	3/4/1997		7.27	--	161.57
	6/27/1997		12.67	--	156.17
	9/29/1997		14.76	--	154.08
	12/17/1997		10.05	--	158.79
	3/16/1998		4.61	--	164.23
	6/29/1998		9.65	--	159.19
	9/17/1998		12.92	--	155.92
3/17/1999		5.10	--	163.74	

Historical Well Monitoring Data
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1051 Spencer Avenue
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WELL NUMBER	DATE	TOP OF CASING ELEVATION <i>(Feet, MSL)</i>	DEPTH TO WATER <i>(Feet, MSL)</i>	PRODUCT THICKNESS <i>(Feet, MSL)</i>	GROUNDWATER ELEVATION <i>(Feet, MSL)</i>	
MW12 (cont.)	9/20/1999		14.36	--	154.48	
	3/28/2000		5.95	--	162.89	
	10/12/2000		14.52	--	154.32	
	3/27/2001		9.39	--	159.45	
	9/27/2001		14.93	--	153.91	
	3/23/2002		7.80	--	161.04	
	9/26/2002		14.86	--	153.98	
	3/31/2003		8.38	--	160.46	
	9/29/2003		14.57	--	154.27	
	3/11/2004		16.50			
	DW1	07/06/94	171.27 (b)	15.08	--	156.19
		08/11/94		16.18	--	155.09
		09/29/94		17.18	--	154.09
11/1/94			17.35	--	153.92	
11/29/94			14.00	--	157.27	
12/28/94			12.60	--	158.67	
01/23/95			2.71	--	168.56	
02/01/95			3.00	--	168.27	
03/02/95			5.94	--	165.33	
04/21/95			6.00	--	165.27	
05/17/95			7.33	--	163.94	
06/07/95			9.02	--	162.25	
07/31/95			12.33	--	158.94	
08/29/95			13.71	--	157.56	
09/26/95			15.01	--	156.26	
10/31/95			16.16	--	155.11	
11/21/95			16.54	--	154.73	
12/21/95			12.51	--	158.76	
01/31/96			6.20	--	165.07	
03/27/96			6.18	--	165.09	
5/9/1996			8.72	--	162.55	
08/16/96			13.90	--	157.37	
12/12/96			12.95	--	158.32	
3/5/97			7.62	--	163.65	
6/27/1997			13.64		Light Sheen	157.63
9/29/1997			14.60		--	156.67
12/17/1997			10.67		Light Sheen	160.60
3/16/1998			4.85		--	166.42
6/29/1998			10.57		--	160.70
9/17/1998			14.10		--	157.17
3/17/1999		5.34		--	165.93	
9/20/1999		15.42		--	155.85	
3/28/2000		6.36		--	164.91	
9/27/2001		17.07		--	154.20	
3/23/2002		8.24		--	163.03	
9/26/2002			Well not measured			
3/31/2003			8.51	--	162.76	
9/29/2003			15.38	--	155.89	
3/11/2004			16.70			

NOTES:

- = No free product or sheen present
- NA = Well not available due to blocked access
- MSL = Mean Sea Level
- (a) = Well Installed and Surveyed in 1991
- (b) = Well Installed and Surveyed in 1994

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

Former Unocal Bulk Plant No. 1975

1051 Spencer Avenue

Santa Rosa, California

WELL NUMBER	DATE	TPH-D	TPH-G	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	MTBE ⁽¹⁰⁾	TOTAL LEAD	NITRATE	
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(ppm)	
MW1	06/04/91	ND	ND	ND	ND	ND	ND		0.047 (1)	4.3	
	09/11/91	ND	ND	ND	ND	ND	ND		0.030 (1)	--	
	10/18/91	---	ND	ND	ND	ND	ND		0.031 (1)	5.8	
	11/14/91	ND	ND	ND	ND	ND	ND		0.021 (1)	--	
	03/11/92	ND	ND	ND	ND	ND	ND		0.026 (1)	--	
	06/18/92	ND	ND	ND	ND	ND	ND		ND (1)	22	
	09/04/92	ND	ND	ND	ND	ND	ND		0.05 (1)	--	
	11/12/92*	ND	ND	ND	ND	ND	ND		ND (1)	15	
	03/25/93	ND	ND	ND	ND	ND	ND		0.006 (1)	--	
	06/15/93	ND	ND	ND	ND	ND	ND		0.022 (1)	4.2	
	08/17/93	ND	ND	ND	ND	ND	ND		ND (1)	5.8	
	12/14/93	ND	ND**	ND**	ND**	ND**	ND**	ND**		ND	--
	03/14/94	ND	ND	ND	ND	ND	ND	ND		ND (1)	12
	05/17/94	ND	ND	ND	ND	ND	ND	ND		ND	12
	07/07/94	ND	ND	ND	ND	ND	ND	ND		ND	12
	11/30/94	ND	ND	ND	ND	ND	ND	ND		ND	--
	03/02/95	ND	ND	ND	ND	ND	ND	ND		ND	--
	05/17/95	ND	ND	ND	ND	ND	ND	ND		ND	--
	09/28/95	ND	ND	ND	ND	ND	ND	ND		ND	--
	11/21/95	ND	ND	ND	ND	ND	ND	ND		--	--
	03/28/96	ND	ND	ND	ND	ND	ND	ND		--	--
	5/9/1996	ND	ND	ND	ND	ND	ND	ND		--	--
	8/19/1996	ND	ND	ND	ND	ND	ND	ND		--	--
	12/13/1996	ND	ND	ND	ND	ND	ND	ND		--	--
3/5/1997	ND	ND	ND	ND	ND	ND	ND		--	--	
6/27/1997	ND	ND	ND	ND	ND	ND	ND		--	--	
9/29/1997	ND	ND	ND	ND	ND	ND	ND		--	--	
12/17/1997	ND	ND	ND	ND	ND	ND	ND		--	--	
3/17/1998	ND	ND	ND	ND	ND	ND	ND		--	--	
6/29/1998	ND	ND	ND	ND	ND	ND	ND		--	--	
9/19/1998	ND	ND	ND	ND	ND	ND	ND		--	--	
MW2	06/04/91	5,600	40,000	380	380	1,600	7,100		0.026 (1)	ND	
	09/11/91	NS	NS	NS	NS	NS	NS		NS (1)	--	
	10/18/91	NS	NS	NS	NS	NS	NS		NS (1)	ND	
	11/14/91	NS	NS	NS	NS	NS	NS		NS (1)	--	
	03/11/92	NS	NS	NS	NS	NS	NS		NS (1)	--	
	06/18/92	NS	48,000	300	350	1,500	8,400		ND (1)	ND	
	09/04/92	NS	57,000	1,000	830	5,100	16,000		0.09 (1)	--	
	11/12/92*	NS	51,000	500	520	4,400	13,000		ND (1)	ND	
	03/25/93	6,000	14,000	41	51	1,000	2,000		0.0088 (1)	--	
	06/15/93	17,000	4,700	50	ND	330	400		0.012 (1)	ND	

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate
Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

WELL NUMBER	DATE	TPH-D	TPH-G	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	MTBE ⁽¹⁰⁾	TOTAL LEAD	NITRATE
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(ppm)
MW2 (cont)	08/17/93	1,800	48,000	120	180	3,900	9,200		ND	(1) ND
	12/14/93	10,000	9,400	ND	ND	520	710		ND	--
	03/14/94	1,500	5,000	47	10	320	260		ND	(1) ND
	05/17/94	3,100	22,000	48	48	2,200	2,600		ND	ND
	07/07/94	UA	UA	UA	UA	UA	UA		UA	UA
	11/30/94	3,500	(2) 34,000	95	110	3,000	5,200		ND	--
	03/03/95	1,500	5400	9.0	ND	490	370		ND	--
	05/18/95	1,900	10,000	17	ND	760	580		ND	--
	09/28/95	6,900	32,000	84	40	2,700	3,400***		ND	--
	11/21/95	6,000	42,000	84	40	2,700	3,4000***		ND	--
	03/28/96	880	1,900	17	ND	130	39		ND	--
	5/9/1996	630	900	11	ND	35	9		ND	--
	8/16/1996	3,500	(4) 20,000	31	22	2,100	1600		ND	--
	12/12/1996	1,700	7,200	ND	ND	520	320		ND	--
	3/5/1997	770	(6) 3,100	44	ND	260	72		ND	--
	6/27/1997	4,500	14,000	69	ND	1,400	590		ND	--
	9/30/1997	6,000	31,000	200	27	3,200	2,700		ND	--
	12/18/1997	2,400	(6) 4,500	21	ND	310	110		ND	--
	3/17/1998	640	(6) 1,400	12	ND	180	34		ND	--
	6/30/1998	410	(6) 690	ND	ND	26	5.0		ND	--
	9/18/1998	5,000	(6) 12,000	37	ND	2,300	980		ND	--
	3/17/1999	1,200	(6) 4,600	55	ND	590	130	130	ND	--
	9/20/1999	4,700	(6), (9) 23,000	ND	ND	2,300	890	ND	ND	--
	3/28/2000	593	(6), (9) 1,650	1.01	ND	110	10.6	10 ⁽¹¹⁾	ND	--
	10/12/2000	3,800	(12) 14,000	81	ND	2,100	370	290	ND	ND
	3/27/2001	620	(6) 2,500	32	ND	210	9	81 ⁽¹¹⁾	ND	--
	9/27/2001	2,500	(13) 25,000	31	13	3,100	1,100	--	ND	--
	3/23/2002	560	(13) 1,900	19	4.8	63	5.6	--	ND	--
	9/26/2002	300	(13) 10,000	130	19	2,000	570	--	--	--
	3/31/2003	860	(13) 2,200	ND	ND	60	6.7	--	--	--
9/29/2003	2,500	4,800	ND	ND	320	21.0	ND	ND	--	
3/11/2004	450	540	ND	ND	12	1.2	ND	ND	--	
MW3	06/04/91	2,600	31,000	640	ND	220	1,800		0.15	(1) ND
	09/11/91	5,000	24,000	500	1,300	1,200	2,400		0.085	(1) --
	10/18/91	NS	NS	NS	NS	NS	NS		NS	(1) ND
	11/14/91	3,500	18,000	710	960	140	2,100		0.038	(1) --
	03/11/92	3,900	9,900	550	300	38	1,000		0.043	(1) --
	06/18/92	ND	11,000	570	58	18	770		ND	(1) 23
	09/04/92	ND	18,000	1,600	76	53	1,200		0.15	(1) --
	11/12/92*	ND	14,000	ND	40	440	2,300		ND	(1) ND
	03/25/93	6,200	6,500	290	27	380	720		0.012	(1) --
	06/15/93	20,000	8,100	640	50	540	890		0.022	(1) ND

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

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1051 Spencer Avenue

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WELL NUMBER	DATE	TPH-D (ppb)	TPH-G (ppb)	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-XYLENES		MTBE ⁽¹⁰⁾ (ppb)	TOTAL LEAD (ppm)	NITRATE (ppm)	
						BENZENE (ppb)	(ppb)				
MW3 (cont)	08/17/93	8,800	5,900	660	23	21	460		ND	(1) ND	
	12/14/93	980	7,700**	970**	35**	420**	590**		ND	--	
	03/14/94	2,600	11,000	690	37	480	750		ND	(1) ND	
	05/17/94	1,200	3,900	420	13	180	240		ND	ND	
	07/06/94	2,500	(2) 11,000	1,200	32	300	360		ND	ND	
	11/30/94	2,400	(2) 11,000	870	43	410	770		ND	--	
	03/03/95	ND	ND	ND	ND	ND	ND		ND	--	
	05/18/95	660	2,100	120	9.1	120	120		ND	--	
	09/27/95	2,500	9,200	1,100	35	360	280***		0.0059	--	
	11/21/95	2,100	9,800	1,000	ND	350	270		0.0062	--	
	03/28/96	330	1,400	160	7.1	77	90		ND	--	
	5/9/1996	960	2,100	410	21	220	220		0.081	--	
	8/16/1996	1,700	(4) 4,300	680	18	170	150		ND	--	
	12/12/1996	810	3,500	120	9	220	320		ND	--	
	3/5/1997	500	(6) 2,600	320	15	130	110		ND	--	
	6/27/1997	800	(6) 1,400	95	ND	44	60		ND	--	
	9/30/1997	1,200	(6) 10,000	1,100	ND	140	98		ND	--	
	12/18/1997	2,200	(6) 8,400	380	50	350	490		ND	--	
	3/17/1998	210	(6) 1,300	100	5.9	41	75		ND	--	
	6/30/1998	1,000	(6) 2,200	300	11.0	91	150		ND	--	
	9/18/1998	1,400	(6) 3,000	580	13	120	160		ND	--	
	3/17/1999	230	(6) 590	75	2.4	25	40	34	ND	--	
	9/20/1999	1,600	(6), (9) 5,200	450	14	140	150	200	ND	--	
	3/28/2000	212	(6), (9) 1,120	117	5.24	51.8	59.9	6.98 ⁽¹¹⁾	ND	--	
	10/12/2000	890	(12) 4,400	520	6.7	51	48	170	ND	ND	
	3/27/2001	630	(12) 810	240	ND	ND	9	ND	ND	--	
	9/27/2001	930	(13) 6,900	360	ND	180	45	--	ND	--	
	3/23/2002	420	(13) 340	34	1.3	0.99	5.9	--	ND	--	
	9/26/2002	80	(13) 3,300	500	ND	32	29	--	--	--	
	3/31/2003	100	(13) 420	35	1.6	15	20	--	--	--	
9/29/2003	910	4,000	360	8.5	12	13	ND	ND	--		
3/11/2004	630	960	64	2.8	33	38	ND	ND			
MW4	07/07/94	ND	ND	ND	ND	ND	ND		ND	5.0	
	11/29/94	ND	ND	ND	ND	ND	ND		ND	--	
	03/03/95	ND	ND	ND	ND	ND	ND		ND	--	
	05/18/95	ND	ND	ND	ND	ND	ND		ND	--	
	09/27/95	55	ND	ND	ND	ND	ND		ND	--	
	11/20/95	57	ND	ND	ND	ND	ND		ND	--	
	03/27/96	ND	ND	ND	ND	ND	ND		--	--	
	5/9/1996	ND	ND	ND	ND	ND	ND		--	--	
	8/19/1996	ND	ND	ND	ND	ND	ND		--	--	
	12/13/1996	59	ND	ND	ND	ND	ND		--	--	
	MW4 (cont.)	3/4/1997	ND	ND	ND	ND	ND	ND		--	--
		6/27/1997	ND	ND	ND	ND	ND	ND		--	--
		9/29/1997	ND	ND	ND	ND	ND	ND		--	--
12/17/1997		ND	ND	ND	ND	ND	ND		--	--	
3/16/1998		ND	ND	ND	ND	ND	ND		--	--	
6/29/1998		ND	ND	ND	ND	ND	ND		--	--	
9/17/1998		50	ND	ND	ND	ND	ND		--	--	
9/29/2003	ND	ND	ND	ND	ND	ND		ND	--		
MW5	07/07/94	ND	ND	ND	ND	ND	1.0		ND	12	

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

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WELL NUMBER	DATE	TPH-D <i>(ppb)</i>	TPH-G <i>(ppb)</i>	BENZENE <i>(ppb)</i>	TOLUENE <i>(ppb)</i>	ETHYL-XYLENES <i>(ppb)</i>		MTBE ⁽¹⁰⁾ <i>(ppb)</i>	TOTAL LEAD <i>(ppm)</i>	NITRATE <i>(ppm)</i>
						BENZENE <i>(ppb)</i>	XYLENES <i>(ppb)</i>			
	11/30/94	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/02/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	05/18/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	11/20/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/28/96	ND	ND	ND	ND	ND	ND	ND	--	--
	5/10/1996	ND	ND	ND	ND	ND	ND	ND	--	--
	8/19/1996	ND	ND	ND	ND	ND	ND	ND	--	--
	12/13/1996	ND	ND	ND	ND	ND	ND	ND	--	--
	3/4/1997	ND	ND	ND	ND	ND	ND	ND	--	--
	6/27/1997	ND	ND	ND	ND	ND	ND	ND	--	--
	9/29/1997	ND	ND	ND	ND	ND	ND	ND	--	--
	12/17/1997	ND	ND	ND	ND	ND	ND	ND	--	--
	3/16/1998	ND	ND	ND	ND	ND	ND	ND	--	--
	6/29/1998	ND	ND	ND	ND	ND	ND	ND	--	--
	9/17/1998	ND	ND	ND	ND	ND	ND	ND	--	--
MW6	07/07/94	ND	ND	ND	ND	ND	ND	ND	ND	11
	11/29/94	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/03/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	05/18/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	11/20/95	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/27/96	ND	ND	ND	ND	ND	ND	ND	--	--
	5/10/1996	ND	ND	ND	ND	ND	ND	ND	--	--
	8/19/1996	ND	ND	ND	ND	ND	ND	ND	--	--
	12/13/1996	ND	ND	ND	ND	ND	ND	ND	--	--
	3/4/1997	120	⁽⁶⁾ ND	ND	ND	ND	ND	ND	--	--
	6/27/1997	ND	ND	ND	ND	ND	ND	ND	--	--
	9/29/1997	ND	ND	ND	ND	ND	ND	ND	--	--
	12/17/1997	ND	ND	ND	ND	ND	ND	ND	--	--
	3/16/1998	ND	ND	ND	ND	ND	ND	ND	--	--

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

Former Unocal Bulk Plant No. 1975

1051 Spencer Avenue

Santa Rosa, California

WELL NUMBER	DATE	TPH-D	TPH-G	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	MTBE ⁽¹⁰⁾	TOTAL LEAD	NITRATE
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(ppm)
MW6 (cont.)	6/29/1998	ND	ND	ND	ND	ND	ND		--	--
	9/17/1998	NA	⁽⁷⁾ ND	ND	ND	ND	ND		--	--
	9/20/1999	55	^{(8), (9)} ND	ND	ND	ND	ND	4.1	--	--
	10/12/2000	64	⁽⁸⁾ ND	ND	ND	ND	ND	ND	--	--
	9/27/2001	ND	ND	ND	ND	ND	ND	--	--	--
	3/23/2002	ND	ND	ND	ND	ND	ND	--	--	--
	9/26/2002	ND	ND	ND	ND	ND	ND	--	--	--
MW7	07/06/94	ND	ND	ND	ND	ND	ND		ND	19
	11/29/94	ND	ND	ND	ND	ND	ND		ND	--
	03/03/95	ND	ND	ND	ND	ND	ND		ND	--
	05/17/95	ND	ND	0.89	ND	ND	2.3		ND	--
	09/27/95	ND	ND	ND	ND	ND	ND		ND	--
	11/20/95	ND	ND	ND	ND	ND	ND		ND	--
	03/28/96	ND	ND	ND	ND	ND	ND		--	--
	5/10/1996	ND	ND	ND	ND	ND	ND		--	--
	8/19/1996	ND	ND	ND	ND	ND	ND		--	--
	12/13/1996	ND	ND	ND	ND	ND	ND		--	--
	3/4/1997	ND	ND	ND	ND	ND	ND		--	--
	6/27/1997	ND	ND	ND	ND	ND	ND		--	--
	9/29/1997	ND	ND	ND	ND	ND	ND		--	--
	12/18/1997	ND	ND	ND	ND	ND	ND		--	--
	3/16/1998	ND	ND	ND	ND	ND	ND		--	--
	6/29/1998	ND	ND	ND	ND	ND	0.55		--	--
	9/17/1998	NA	⁽⁷⁾ ND	ND	ND	ND	0.55		--	--
	9/20/1999	51	^{(8), (9)} ND	ND	ND	ND	ND	3.8	--	--
	10/12/2000	ND	ND	ND	ND	ND	ND	ND	--	--
	9/27/2001	ND	ND	ND	ND	ND	0.55	--	--	--
3/23/2002	ND	ND	ND	ND	ND	ND	--	--	--	
9/26/2002	ND	ND	ND	ND	ND	ND	--	--	--	
9/29/2003	ND	ND	ND	ND	ND	ND	ND	--	--	
MW8	07/07/94	ND	ND	ND	ND	ND	ND		ND	17
	11/30/94	ND	ND	ND	ND	ND	ND		ND	--
	03/03/95	ND	ND	ND	ND	ND	ND		ND	--
	05/17/95	81	ND	ND	ND	ND	ND		ND	--
	09/28/95	ND	ND	ND	ND	ND	ND		ND	--
	11/21/95	ND	ND	ND	ND	ND	ND		ND	--
	03/27/96	ND	ND	ND	ND	ND	ND		--	--
	5/10/1996	ND	ND	ND	ND	ND	ND		--	--
	8/19/1996	ND	ND	ND	ND	ND	ND		--	--
	12/13/1996	ND	ND	ND	ND	ND	ND		--	--

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

Former Unocal Bulk Plant No. 1975

1051 Spencer Avenue

Santa Rosa, California

WELL NUMBER	DATE	TPH-D (ppb)	TPH-G (ppb)	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	MTBE ⁽¹⁰⁾ (ppb)	TOTAL	NITRATE
									LEAD (ppm)	(ppm)
MW8 (cont)	3/4/1997	ND	ND	ND	ND	ND	ND		--	--
	6/27/1997	ND	ND	ND	ND	ND	ND		--	--
	9/29/1997	ND	ND	ND	ND	ND	ND		--	--
	12/17/1997	ND	ND	ND	ND	ND	ND		--	--
	3/16/1998	ND	ND	ND	ND	ND	ND		--	--
	6/29/1998	ND	ND	ND	ND	1.2	ND		--	--
	9/17/1998	ND	ND	ND	ND	ND	ND		--	--
	9/20/1999	140	^{(8), (9)}	ND	ND	ND	ND	2.7	--	--
	10/12/2000	370	⁽⁸⁾	ND	ND	ND	ND	ND	--	--
	9/27/2001	54	⁽¹³⁾	ND	ND	ND	ND	--	--	--
	3/23/2002	ND		ND	ND	ND	ND	--	--	--
	9/26/2002	ND		ND	ND	ND	ND	--	--	--
	9/29/2003	ND		ND	ND	ND	ND	ND	--	--
MW9	07/06/94	ND	ND	ND	ND	ND	ND		ND	10
	11/30/94	ND	ND	ND	ND	ND	ND		ND	--
	03/03/95	ND	ND	ND	ND	ND	ND		ND	--
	05/17/95	ND	ND	ND	ND	ND	ND		ND	--
	09/28/95	ND	ND	ND	ND	ND	ND		ND	--
	11/21/95	ND	ND	ND	ND	ND	ND		ND	--
	03/27/96	ND	ND	ND	ND	ND	ND		--	--
	5/10/1996	ND	ND	ND	ND	ND	ND		--	--
	8/19/1996	ND	ND	ND	ND	ND	ND		--	--
	12/13/1996	ND	ND	ND	ND	ND	ND		--	--
	3/4/1997	ND	ND	ND	ND	ND	ND		--	--
	6/27/1997	ND	ND	ND	ND	ND	ND		--	--
	9/29/1997	ND	ND	ND	ND	ND	ND		--	--
	12/17/1997	ND	ND	ND	ND	ND	ND		--	--
	3/17/1998	ND	ND	ND	ND	ND	ND		--	--
	6/29/1998	ND	ND	ND	ND	ND	ND		--	--
	9/17/1998	ND	ND	ND	ND	ND	ND		--	--
	9/20/1999	130	^{(8), (9)}	ND	ND	ND	ND	2.7	--	--
	10/12/2000	190	⁽⁸⁾	ND	ND	ND	ND	ND	--	8.7
	9/27/2001	ND		ND	ND	ND	ND	--	--	--
3/23/2002	ND		ND	ND	ND	ND	--	--	--	
9/26/2002	ND		ND	ND	ND	ND	--	--	--	
9/29/2003	370		ND	ND	ND	ND	ND	--	--	
MW10	07/06/94	ND	ND	ND	ND	ND	ND		ND	ND
	11/30/94	ND	ND	ND	ND	ND	ND		ND	--
	03/02/95	ND	ND	ND	ND	ND	ND		ND	--
	05/18/95	ND	ND	ND	ND	ND	ND		ND	--

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

Former Unocal Bulk Plant No. 1975

1051 Spencer Avenue

Santa Rosa, California

WELL NUMBER	DATE	TPH-D	TPH-G	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	MTBE ⁽¹⁰⁾	TOTAL LEAD	NITRATE
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(ppm)
MW10 (cont.)	09/28/95	ND	ND	ND	ND	ND	ND		ND	--
	11/20/95	ND	ND	ND	ND	ND	ND		ND	--
	03/28/96	ND	ND	ND	ND	ND	ND		ND	--
	5/9/1996	ND	ND	ND	ND	ND	ND		ND	--
	8/16/1996	ND	ND	ND	ND	ND	ND		ND	--
	12/13/1996	ND	ND	ND	ND	ND	ND		ND	--
	3/5/1997	ND	ND	ND	ND	ND	ND		ND	--
	6/27/1997	ND	ND	ND	ND	ND	ND		ND	--
	9/30/1997	140	⁽⁶⁾	ND	ND	ND	ND		ND	--
	12/18/1997	UA		UA	UA	UA	UA		UA	--
	3/17/1998	ND		ND	ND	ND	ND		ND	--
	6/30/1998	ND		ND	ND	ND	ND		ND	--
	9/19/1998	ND		ND	ND	ND	ND		ND	--
	9/20/1999	55	^{(8), (9)}	ND	ND	ND	ND	3.5	ND	--
	10/12/2000	260	⁽⁸⁾	ND	ND	ND	ND	ND	--	--
	9/27/2001	ND		ND	ND	ND	ND	--	--	--
	3/23/2002	ND		ND	ND	ND	ND	--	--	--
	9/26/2002	ND		ND	ND	ND	ND	--	--	--
9/29/2003	ND		ND	ND	ND	ND	ND	--	--	
MW11	07/07/94	1,600	2,100	⁽³⁾	ND	ND	ND		ND	ND
	11/30/94	550	⁽²⁾	88	ND	ND	ND		ND	--
	03/02/95	1200	⁽⁴⁾	ND	ND	ND	ND		ND	--
	05/17/95	620		ND	ND	ND	ND		ND	--
	09/28/95	490		ND	ND	ND	ND		ND	--
	11/20/95	1,100		ND	ND	ND	ND		ND	--
	03/28/96	660		ND	ND	ND	ND		--	--
	5/9/1996	1300		63	⁽⁵⁾	ND	ND	ND	ND	--
	8/16/1996	350	⁽⁴⁾	ND	ND	ND	ND		ND	--
	12/13/1996	1,100		ND	ND	ND	ND		ND	--
	3/5/1997	950	⁽⁶⁾	ND	ND	ND	ND		ND	--
	6/27/1997	450	⁽⁶⁾	ND	ND	ND	ND		ND	--
	9/30/1997	190	⁽⁶⁾	ND	ND	ND	ND		ND	--
	12/18/1997	530	⁽⁶⁾	ND	ND	ND	ND		ND	--
	3/17/1998	800	⁽⁶⁾	ND	ND	ND	ND		ND	--
	6/30/1998	850	⁽⁶⁾	ND	ND	ND	ND		ND	--
	9/18/1998	NA	⁽⁷⁾	ND	ND	ND	ND		ND	--
	3/17/1999	850	⁽⁷⁾	ND	ND	ND	ND	2.8	ND	--
9/20/1999	330	^{(6), (9)}	ND	ND	ND	ND	ND	ND	--	
3/28/2000	1910	^{(6), (9)}	ND	ND	ND	ND	ND	ND	--	
10/12/2000	520	⁽⁸⁾	ND	ND	ND	ND	ND	ND	ND	
3/27/2001	230	⁽⁸⁾	ND	ND	ND	ND	ND	ND	--	

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

Former Unocal Bulk Plant No. 1975

1051 Spencer Avenue

Santa Rosa, California

WELL NUMBER	DATE	TPH-D (ppb)	TPH-G (ppb)	BENZENE (ppb)	TOLUENE (ppb)	ETHYL-XYLENES (ppb)		MTBE ⁽¹⁰⁾ (ppb)	TOTAL LEAD (ppm)	NITRATE (ppm)		
						BENZENE (ppb)	XYLENES (ppb)					
MW11 (cont.)	9/27/2001	300	⁽¹³⁾ ND	ND	ND	ND	ND	ND	--	ND	--	
	3/23/2002	290	⁽¹³⁾ ND	ND	ND	ND	ND	ND	--	ND	--	
	9/26/2002	13	⁽¹³⁾ ND	ND	ND	ND	ND	ND	--	--	--	
	3/31/2003	1300	⁽¹³⁾ ND	ND	ND	ND	ND	ND	--	--	--	
	9/29/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	3/11/2004	310	ND	ND	ND	ND	ND	ND	ND	ND	--	
MW12	07/06/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	
	11/30/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	03/03/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	05/18/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	09/27/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	11/21/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	03/27/96	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	5/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	8/19/1996	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	12/13/1996	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	3/4/1997	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	6/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	9/30/1997	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	12/18/1997	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	3/16/1998	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	6/30/1998	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	9/17/1998	ND	ND	ND	ND	ND	ND	ND	ND	--	--	
	9/20/1999	57	^{(6), (9)} ND	ND	ND	ND	ND	ND	ND	ND	--	--
	10/12/2000	130	⁽⁸⁾ ND	ND	ND	ND	ND	ND	ND	ND	--	--
	9/27/2001	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
3/23/2002	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	
9/26/2002	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	
9/29/2003	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	
DW-1	07/07/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.3	
	11/30/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	03/02/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	05/18/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	09/28/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	11/21/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	03/27/96	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	5/9/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	8/16/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
	12/13/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	
3/5/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	--		
6/27/1997	ND	ND	ND	ND	ND	ND	ND	ND	ND	--		

Historical Summary of Groundwater Analytical Results for TPH, BTEX, MTBE, Lead, and Nitrate

Former Unocal Bulk Plant No. 1975

1051 Spencer Avenue

Santa Rosa, California

WELL NUMBER	DATE	TPH-D	TPH-G	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	MTBE ⁽¹⁰⁾	TOTAL LEAD	NITRATE
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)	(ppm)
DW-1 (cont)	9/30/1997	ND	ND	ND	ND	ND	ND		ND	--
	12/18/1997	ND	ND	ND	ND	ND	ND		ND	--
	3/17/1998	ND	ND	ND	ND	ND	ND		ND	--
	6/30/1998	ND	ND	ND	ND	ND	ND		ND	--
	9/18/1998	NA ⁽⁷⁾	ND	ND	ND	ND	ND		ND	--
	3/11/2004	ND	ND	ND	ND	ND	ND	ND	ND	--
Detection Limits:		50	50	0.50	0.50	0.50	0.50		0.10	0.1

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not detected. See laboratory report for detection limits.

NS = Not sampled.

UA = Well was inaccessible.

-- = Analysis not performed.

* = Nitrates and lead sampled on December 2, 1992.

** = Analysis from wells resampled January 7, 1994.

*** = Xylene EPA 8240: MW-2: 5,100 ppb; MW-3: 310 ppb.

(1) = Detection Limit was 0.005 mg/L.

(2) = Laboratory reports chromatogram pattern as being "Non-Diesel < C18".

(3) = Laboratory reports chromatogram pattern as being "Non-Gas > C8".

(4) = Laboratory reports chromatogram pattern as being "Non-Diesel > C9".

(5) = Laboratory reports chromatogram pattern as being "Non-Gas > C11".

(6) = Laboratory reports unidentified hydrocarbon between C9 and C24.

(7) = Sample container broken in laboratory.

(8) = Laboratory reports unidentified hydrocarbon > C16.

(9) = Laboratory reports detectable levels of hydrocarbons in Method Blank.

(10) = MTBE results by EPA Method 8020. MTBE has never been confirmed at site by EPA Method 8260.

(11) = False detection of MTBE as confirmed by EPA Method 8260.

(12) = Laboratory reports unidentified hydrocarbon < C16.

(13) = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

**Historical Summary of Groundwater Analytical Results
Volatile/Semivolatile Organics and Metals Analysis
September 29, 2003**

Former Unocal Bulk Plant No. 1975
1051 Spencer Avenue
Santa Rosa, California

PARAMETER	UNITS	MW-2	MW-3	MW-4	MW-11
VOLATILES (EPA 8260)					
Benzene	ug/l	<12	360	<0.5	<0.5
n-Butylbenzene	ug/l	43	23	<0.5	<0.5
sec-Butylbenzene	ug/l	30	18	<0.5	<0.5
Ethylbenzene	ug/l	320	12	<0.5	<0.5
Isopropylbenzene	ug/l	140	89	<0.5	<0.5
Methylene chloride	ug/l	<12	< 5.0	<0.5	<0.5
Naphthalene	ug/l	210	< 5.0	<0.5	<0.5
n-Propylbenzene	ug/l	420	220	<0.5	<0.5
Styrene	ug/l	<12	< 5.0	<0.5	<0.5
Tetrachloroethene	ug/l	<12	< 5.0	<0.5	<0.5
Toluene	ug/l	<12	8.5	<0.5	<0.5
Trichloroethene	ug/l	<12	< 5.0	<0.5	<0.5
1,2,4-Trimethylbenzene	ug/l	<12	5.1	<0.5	<0.5
1,3,5-Trimethylbenzene	ug/l	<12	< 5.0	<0.5	<0.5
Total Xylenes	ug/l	21	13	<0.5	<0.5
SEMIVOLATILES (EPA 8270)					
2-Methylnaphthalene	ug/l	240	36	NA	NA
Naphthalene	ug/l	220	< 10	NA	NA
METALS					
Barium	mg/l	0.076	0.100	0.064	0.043
Chromium	mg/l	< 0.010	< 0.010	< 0.010	< 0.010
Cobalt	mg/l	< 0.007	< 0.007	< 0.007	< 0.007
Copper	mg/l	< 0.010	< 0.010	< 0.010	< 0.010
Nickel	mg/l	< 0.030	0.040	< 0.030	< 0.030
Selenium	mg/l	< 0.10	< 0.10	< 0.10	< 0.10
Thallium	mg/l	< 0.10	< 0.10	< 0.10	< 0.10
Vanadium	mg/l	< 0.010	< 0.010	< 0.010	< 0.010
Zinc	mg/l	< 0.020	< 0.020	< 0.020	< 0.020

NOTES:

< X = Constituents not present at or above method detection limits of X.

ug/l = Micrograms per liter.

mg/l = Milligrams per liter.

NA = Not Analyzed

No other VOCs, SVOCs, or Metals were detected